HITACHI

PA **No. 0054**

35UX80B/CZ58
35UX70B/CZ57
35UX70BA/CZ57P
35TX79K/CZ56
32UX8B/CY58

SERVICE MANUAL

NTSC A4LXU CHASSIS

R/C: CLU-951MP
CLU-415UI

HITA-02844

CAUTION: Before servicing this chassis, it is important that the service technician read the "Safety Precautions" and "Product Safety Notices" in this Service Manual.

This television receiver will display television Closed Captioning (CC or ☐) in accordance with paragraph 15.119 of the FCC rules.

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SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT

SOLID STATE COLOR TELEVISION

OCTOBER 1995 **HHEA - MANUFACTURING DIVISION**

2844

SAFETY PRECAUTIONS

NOTICE: Comply with all cautions and safety related notes located on or inside the cabinet and on the chassis or picture tube.

WARNING: Since the chassis of this receiver is connected to one side of the AC power supply during operation, whenever the receiver is plugged in, service should not be attempted by anyone unfamiliar with the precautions necessary when working on this type of receiver.

The following precautions should be observed:

1. Do not install, remove, or handle the picture tube in any manner unless shatterproof goggles are worn. People not so equipped should be kept away from the picture tube while handling.
2. When service is required, an isolation transformer should be inserted between power line and the receiver before any service is performed on a "HOT" chassis receiver.
3. When replacing a chassis in the receiver, all the protective devices must be put back in place, such as barriers, nonmetallic knobs, adjustment and compartment cover-shields, isolation resistors, capacitors, etc.
4. When service is required, observe the original lead dress in the high voltage circuitry area.
5. Always use the manufacturer's replacement components. Critical components as indicated on the circuit diagram should not be replaced by another manufacturer's. Furthermore, where a short circuit has occurred, replace those components that indicate evidence of overheating.
6. Before returning a serviced receiver to the customer, the service technician must thoroughly test the unit to be certain that it is completely safe to operate without danger of electrical shock, and be sure that no protective device built into the receiver by the manufacturer has become defective, or inadvertently defeated during servicing.

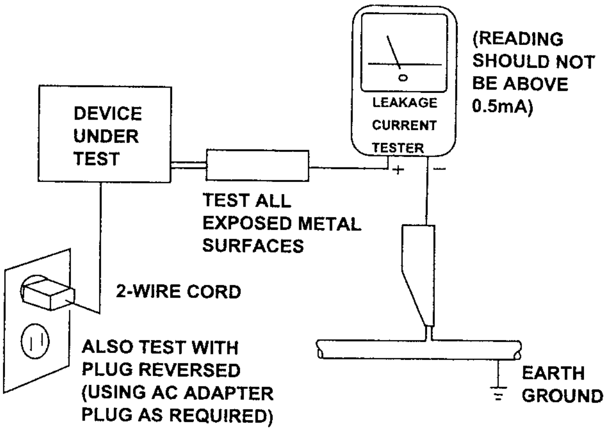
Therefore, the following checks should be performed for the continued protection of the customer and service technician.

Leakage Current Cold Check

With the AC plug removed from the 120V AC 60Hz source, place a jumper across the two plug prongs. Turn the AC power switch ON using an insulation tester (DC500V), connect one lead to the jumpered AC plug and touch the other lead to each exposed metal part (antennas, screwheads, metal overlays, control shafts, etc.), particularly any exposed metal part having a return path to the chassis should have a minimum resistor reading of 0.24MΩ and a maximum resistor reading of 12MΩ . Any resistance value below or above this range indicates an abnormality which requires corrective action. Exposed metal part not having a return path to the chassis will indicate an open circuit.

Leakage Current Hot Check

Plug the AC line cord directly into an AC 120V 60Hz outlet (do not use an isolation transformer for this check). Turn the AC power ON. Using a "Leakage Current Tester (Simpson's Model 229 or equivalent)", measure for current from all exposed metal parts of the cabinet (antennas, screwheads, overlays, control shafts, etc.) particularly any exposed metal part having a return path to the chassis or to a known earth ground (water pipe, conduit, etc.). Any current measured must not exceed 0.5mA.


(READING SHOULD NOT BE ABOVE 0.5mA)
LEAKAGE CURRENT TESTER
DEVICE UNDER TEST
+
−
TEST ALL EXPOSED METAL SURFACES
2-WIRE CORD
ALSO TEST WITH PLUG REVERSED (USING AC ADAPTER PLUG AS REQUIRED)
EARTH GROUND

AC LEAKAGE TEST

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE RECEIVER TO THE CUSTOMER.

High Voltage

This receiver is provided with a hold down circuit for clearly indicating that voltage has increased in excess of a predetermined value. Comply with all notes described in this Service Manual regarding this hold down circuit when servicing, so that this hold down circuit is operated correctly.

Serviceman Warning

With minimum BRIGHTNESS and CONTRAST, the operating high voltage in this receiver is lower than 37.0KV. In case any component having influence on the high voltage is replaced, confirm that high voltage with minimum BRIGHTNESS and CONTRAST is lower than 37.0KV. To measure high voltage use a high impedance High Voltage Meter. Connect (-) to chassis earth and (+) to the CPT Anode button (See the following connection diagram).

NOTE: Turn the power switch OFF without fail before the connection to the Anode button is made.

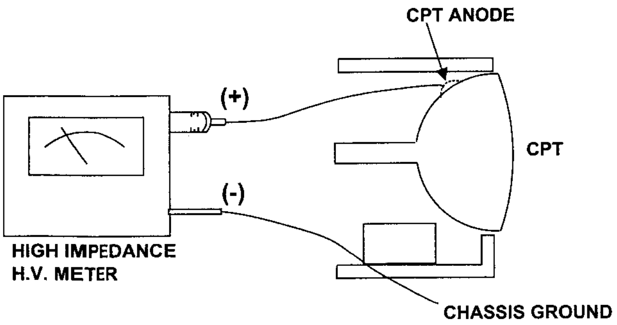
PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in HITACHI television receivers have special safety related characteristics. These are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacements parts which have these special safety characteristics are identified in this Model Service Manual.

Electrical components having such features are identified with an ⚠ mark in the schematics and parts list in this Model Service Manual.

The use of a substitute replacement component which does not have the same safety characteristics as the HITACHI recommended replacement one, shown in the parts list in this Model Service Manual, may create shock, fire, X-Radiation, or other hazards.

Production Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current HITACHI Service Manual. A subscription to, or additional copies of HITACHI Service Manual may be obtained at a nominal charge from HITACHI SALES CORPORATION.



X-Radiation

TUBE: The primary source of X-Radiation in this receiver is the picture tube. The tube utilized in this chassis is specially constructed to limit X-Radiation emission. For continued X-Radiation protection, the replacement tube must be the same type as the original HITACHI approved type.

When troubleshooting and making test measurements in a receiver with an excessive high voltage problem, avoid coming unnecessarily close to the picture tube and the high voltage component.

Do not operate the chassis longer than is necessary to locate the cause of the excessive voltage.

This Service Manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual. Improperly performed repairs can adversely affect the product and its safety. Consumers should not risk trying to do the necessary repairs and should instead refer to a qualified service technician.

WARNING

Lead in solder used in this product is listed by the California Health and Welfare agency as a known reproductive toxicant which may cause birth defects or other reproductive harm (California Health and Safety Code, Section 25249.5).

When servicing or handling circuit boards and other components with lead in solder, avoid unprotected skin contact with the solder. Also, when soldering do not inhale any smoke or fumes produced.

SAFETY NOTICE
USE ISOLATION TRANSFORMER
WHEN SERVICING

Components having special safety characteristics are identified by ⚠ on the parts list in this Model Service Manual and its supplements and bulletins. Before servicing this, it is important that the service technician read and follow the "Safety Precautions" and the "Product Safety Notices" in this Service Manual.

- For continued X-Radiation protection, replace picture tube with original type or Hitachi equivalent type.

POWER SOURCE

This television receiver is designed to operate on 120 Volts/60Hz, AC house current. Insert the power cord into a 120 Volts/60Hz outlet.

NEVER CONNECT THE TV TO OTHER THAN THE SPECIFIED VOLTAGE OR TO DIRECT CURRENT.

TECHNICAL SPECIFICATIONS

POWER RATINGS

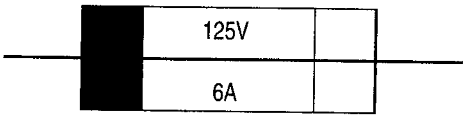
35UX80B/CZ58	240 watts
35UX70B/CZ57	210 watts
35UX70BA/CZ57P	210 watts
35TX79K/CZ56	210 watts
32UX8B/CY58	180 watts

PICTURE TUBE

35UX80B/CZ58	A89AGF11X10
35UX70B/CZ57	A89LED50X02(V)
35UX70BA/CZ57P	A89LED50X02(V)
35TX79K/CZ56	A89LFL50X01(V) A89KPP50X01(V)
32UX8B/CY58	A80LJF30X

CAUTION

The following symbol near the fuse indicates fast operating fuse (to be replaced). Fuse ratings appear within the symbol. Example:



F901

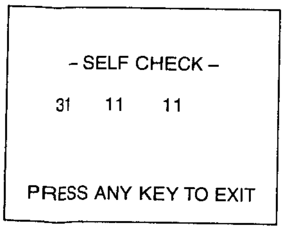
The rating of fuse F901 is 6.0A-125V.
Replace with the same type fuse for continued protection against fire.

SELF CHECK REPAIR CODES

Press the AVX and POWER buttons on the control panel at the same time.

CODE	DETECTION CONTENTS	DETECTION TIME	REMARK
40	Detection of abnormal deflection circuit		
41	Detection of abnormal +B line		
43	Detection of abnormal signal circuit		
10	Check for PLL lock	Not locked in 2 sec.	During selection time
11	Check for AFC operation	Not finished in 2 sec.	During selection time
60	Check for AC input	At uP reset time	AC input (50/60H) not detected at reset time
31	Check EEPROM operation	At uP reset time	Check for out of range operation

Note: Code 10 or 11 may appear if TV is turned on without an antenna source connected.


- SELF CHECK -
31 11 11

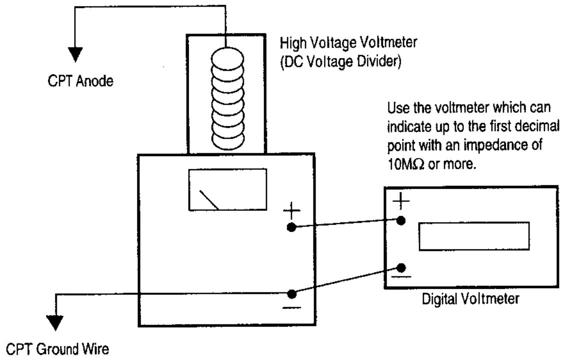
PRESS ANY KEY TO EXIT

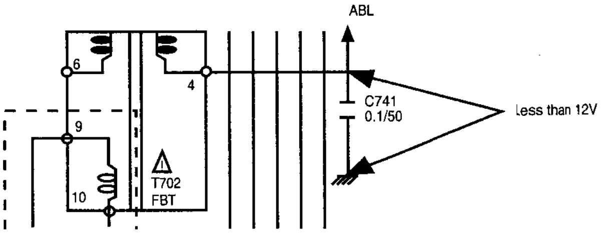
TECHNICAL CAUTIONS

High voltage limiter circuit operation check.

Adjustment Preparation

1. Connect a high voltage voltmeter between CPT anode terminal (anode capside) and the ground.
2. Set AC Input voltage to 120±3V.
3. Receive Circle Pattern or broadcast signal and set "BRIGHTNESS" and "CONTRAST" to maximum. Adjust the Screen VR so that Beam Current is 1B±0. 1 mA. (The voltage of ABL terminal -C741- should be 12V or less


CPT Anode
High Voltage Voltmeter
(DC Voltage Divider)
Use the voltmeter which can indicate up to the first decimal point with an impedance of 10MΩ or more.
+
−
+
−
Digital Voltmeter
CPT Ground Wire


ABL
6
4
9
10
T702
FBT
C741
0.1/50
Less than 12V

Adjustment Procedure

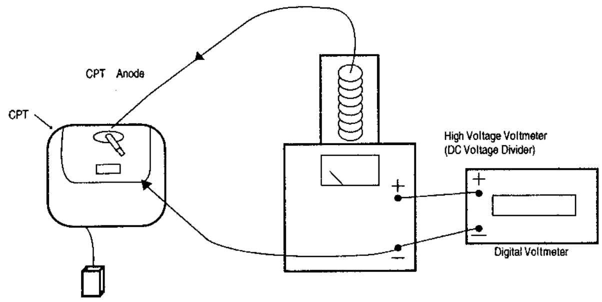
1. Check that the normal high voltage and +B voltage is as below.

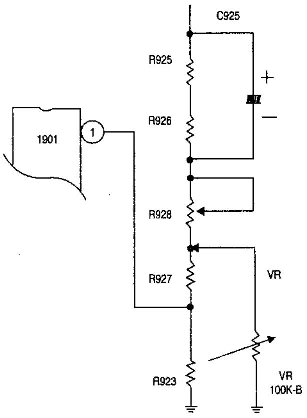
CHASSIS	E_{HT}	I_B	+B	E1
CZ58/CZ57/CZ57P/CZ56	30.0 (KV) ±1 KV	1.8 (mA) ±0.1 mA	130.0 (V) ± 0.3V	35.5 (KV) ±1.3 KV
CY58	29.2 (KV) ±1 KV	1.65 mA ±0.1 mA	130.0 (V)± 0.3V	34.0 (KV) ±1.3 KV

Adjustment Preparation

4. Set AC input voltage to 120±3V. Then, connect the VR (100K-B) to R927 and ground side as below.
   Note: At that time the value of VR should be maximum.

Use the voltmeter of input impedance 10M ohm or more with indication to the 1st decimal place.


CPT Anode
CPT
High Voltage Voltmeter
(DC Voltage Divider)
+
−
+
−
Digital Voltmeter


C925
R925
+
−
R926
1901
1
R928
R927
VR
R923
VR
100K-B

Adjustment Procedure

2. Keep CONTRAST, BRIGHTNESS, and SCREEN VR as in item (3). Reduce the VR value gradually, and check that the picture disappears when high voltage is E1. Immediately after checking that it disappears, turn off the set switch. Remove the VR and high voltage voltmeter. When connecting or removing high voltage voltmeter to or from anode cap, be sure to turn off the switch of the set. Also, be sure to perform it after the chassis discharge of residual high voltage, because the high voltage of CPT anode may be left.

ADJUSTMENT SPECIFICATIONS

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Refer to CHASSIS SERVICE MANUAL PA NO. 0055 for additional technical information.

Note:

1. MAIN CHASSIS ASSEMBLY ADJUSTMENT is done with precision equipment. Readjustment is only recommended if the service technician replaced a defective component related to the circuit.
2. COMMON SERVICE ADJUSTMENT is recommended for the service technician after final troubleshooting and repair is done. Quick check and fine tuning is advisable to verify that the problem is eliminated.

I. ASSEMBLED P.W.B. ADJUSTMENT

1. POWER SURROUND P.W.B. ADJUSTMENT (IF MTS CIRCUIT)

1-1 IF adjustment

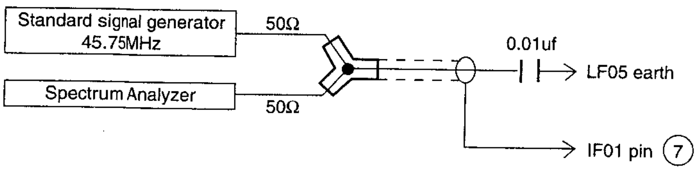
1-1-1 AGC Coarse Adjustment (RF15)

Set adjustment VR (FR15) to mechanical center.

1-1-2 VCO Adjustment (LF05)

Adjustment Preparation

(1) Apply 9.0±0.1V to PIFB pin ①.
(2) Connect IF01 pin ⑬ to GND.
(3) Connect the following jig and pick up VCO oscillation leakage voltage.


Standard signal generator 45.75MHz
50Ω
Spectrum Analyzer
50Ω
0.01uf
LF05 earth
IF01 pin ⑦

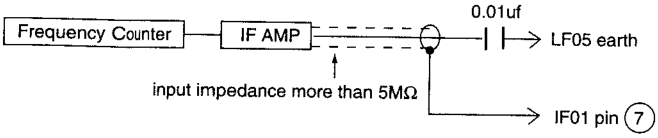
Adjustment Procedure

(1) Adjust LF05 so that VCO frequency detected by spectrum analyzer is 45.75MHz$^{+0}_{-50}$ KHz. (Match the output level of standard signal generator ot the level of VCO oscillation leakage voltage and adjust LF05 to take 0 beat.)
Note: Perform this adjustment after VCO frequency is stabilized.

1-1-2 VCO Adjustment (LF05) (Another method)

Adjustment Preparation

(1) Apply 9.0±0.1V to PIFB pin ①.
(2) Connect IF01 pin ⑬ to GND.
(3) Connect the following jig and pick up VCO oscillation leakage voltage.


Frequency Counter
IF AMP
0.01uf
LF05 earth
input impedance more than 5MΩ
IF01 pin ⑦

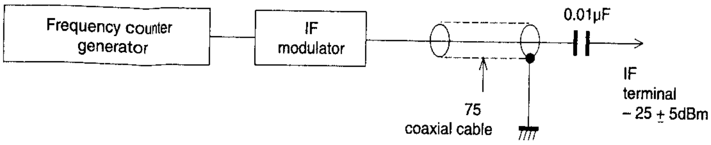
Adjustment Procedure

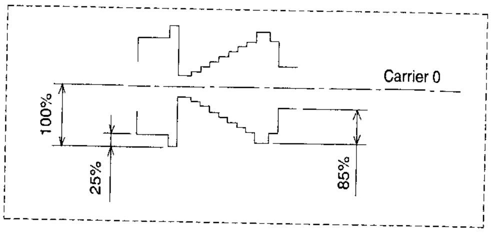
(1) Adjust IF01 so that the reading of the frequency counter is 45.75MHz$^{+0}_{-50}$ KHz.
Note: Perform this adjustment after VCO frequency is stabilized.

1-1-3 AFS Discrimination (LF06) Adjustment

Adjustment Preparation

(1) Input signal. Apply the following signal to the terminal:


Frequency counter generator
IF modulator
0.01μF
75 coaxial cable
IF terminal
− 25 ± 5dBm


Carrier 0
100%
25%
85%

(2) Apply 9.0±0.1V to the BM terminal.
(3) Connect the DC voltmeter (internal impedance of 1MΩ or more) to the IF01 pin ⑭ output terminal.

Adjustment Procedure

(1) Turn LF06 and check that the reading to the DC voltmeter changes from 0.5V or less at 8.0V or more.
(2) Adjust LF06 and set so that the reading of the voltmeter is 6.0±0.5V within the core position range that the voltage is rapidly changed.

1-1-4 SIF Discrimination (LF10) Adjustment

Adjustment Preparation

(1) Input signal. Apply the following signal to the terminal.

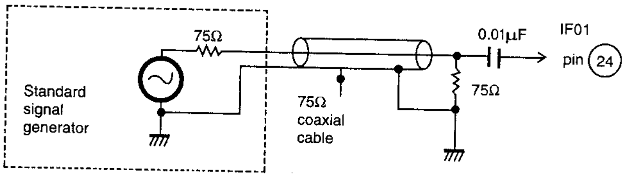

75Ω
Standard signal generator
75Ω coaxial cable
0.01μF
IF01 pin ㉔
75Ω

Table 1

Carrier frequency	4.5 MHz±5KHz
Modulation frequency	400Hz
Modulation	FM 50% (12.5KHz Dev.)
Output level (SG)	-25±3dBm
Connection point of the measuring device	4.5MHz±5KHz
DC voltage at AUDIO OUT	4.0±0.5V

(2) Apply DC 9.0±0.1V to the PIFB pin ①.
(3) Internal signal can be used as an input signal. (In this case, audio 400Hz, 50% modulation. All other adjustments must be completed.)

Adjustment Procedure

(1) Adjust LF10 to set the DC voltage at AUDIO OUT to the value shown in Table 1.

II. MAIN CHASSIS ASSEMBLY ADJUSTMENT

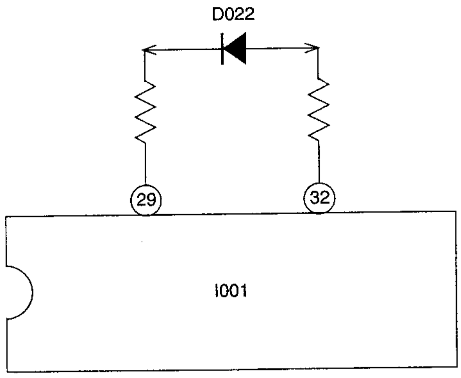
1. SIGNAL BLOCK ADJUSTMENT

1-1 Setting Mode

1-1-1 Memory Initialize

Adjustment Preparation

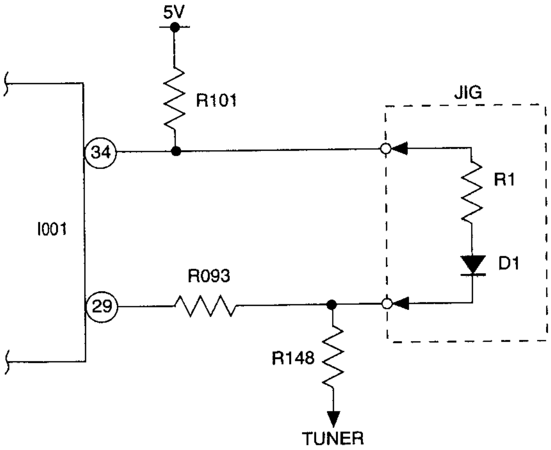
(1) Connect the jig (D022) shown as follows between I001 ㉙ and ㉜. (Connect PI2 ①—② Pin.)


D022
29
32
I001

(2) After memory-initialize operation, check that the CTV receives the Channel 03.
Note: Do not draw out the outlet or perform any key operation. After this operation, each setting should become to delivery setting automatically.

1-1-2 I²C Bus Off Mode

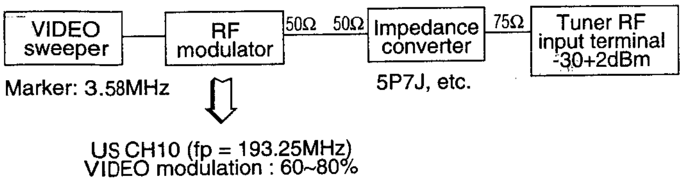
Connect R1 (1KΩ), D1 (1SS254) as follows.


5V
R101
JIG
34
R1
I001
D1
R093
29
R148
TUNER

1-2 VIDEO waveform characteristics adjustment

Adjustment Preparation

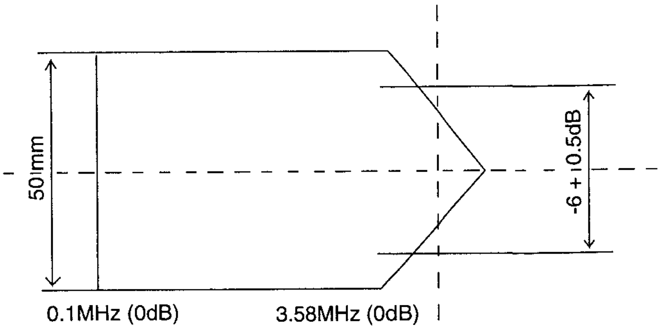
(1) This adjustment should be done after assembled IF/MTS PWB into main P.W.B.
(2) Input signal. Apply the following signal to the tuner RF input terminal.


VIDEO sweeper
RF modulator
50Ω
50Ω
Impedance converter
75Ω
Tuner RF input terminal -30+2dBm
Marker: 3.58MHz
5P7J, etc.
US CH10 (fp = 193.25MHz)
VIDEO modulation : 60~80%

(3) Connect the oscilloscope to PIFB ⑥(VIDEO OUT) of IF section.
(4) Apply DC 9.0±0.1V to the C039 ⊕ to GND.
(5) Apply DC 9.0±0.1V to ENH3 pin⑤. Then I001 pin (61) should be 5V).
(6) Apply DC 45.0±1V to C736⊕ to GND (then C038 voltage should be 30V or more).
(7) Initialize memory.
(8) Receive color bar signal.
(9) Short PI2 Pin ① and ② (AFC off).

Adjustment Procedure

(1) Observe the waveform level of the oscilloscope screen and turn the core of tuner IFT COIL so that the following specification is satisfied at U.S. Channel 10.
(2) Turn the tuner IFT COIL so that the following specification is satisfied at U.S. Channel 14 (UHF).


50mm
-6 + 0.5dB
0.1MHz (0dB)
3.58MHz (0dB)

1-3 MTS demodulating circuit adjustment

(1) Select I²C bus off mode by JIG. (See Item 1-1-2).
(2) Connect power.
(3) Press the "POWER" button while pressing the "VOLUME DOWN" button and select "MTS ADJ" mode as shown.

INITIAL DATA as follows:		
INITIAL SET	:	☐
INPUT LEVEL	:	20
ST VCO	:	20
FILTER	:	3F
SEPARATION (L)	:	20
SEPARATION (H)	:	20
SAP VCO	:	20

(4) Select the "INITIAL SET" to set each adjusted data to initial data.
(5) Check +9±0.5V on point.
① PIFA pin ①.
② Tuner +B.

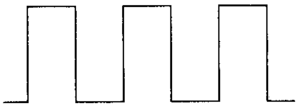
1-3-1 ST VCO Adjustment

Adjustment Preparation

(1) Select the "ST VCO" on "MTS ADJ" mode.
(2) Connect a frequency counter to IA01 pin㉖ R-OUT.
Note: Use the probe of 1:1
Probe standard Ri≥1MΩ, Ci≤15pF
(3) The input of IA01 pin⑦ AUDIO in is no signal.

Adjustment Procedure

(1) Adjust the data band set to 15.734±0.1kHz by a frequency counter.
Note: Variable range of data: 00~3F (HEX).
Wave form of IA01 pin ㉖ R-OUT.

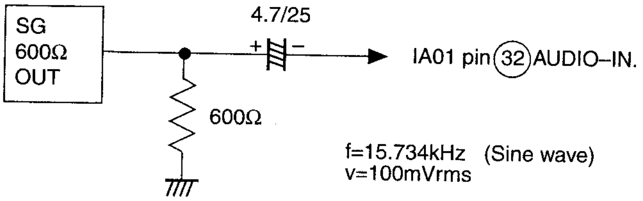


1-3-2 Filter Adjustment

Adjustment Preparation

(1) Select the "FILTER" on "MTS ADJ" mode.

(2) Apply a signal to IA01 pin⑦AUDIO in with the jig shown as follows.



(3) Connect an oscilloscope to IA01 pin ㉖ R-OUT.

Adjustment Procedure

(1) Adjust the data so that the wave form of IA01 pin ㉖ R-OUT is minimum.
Note: Variable range of data: 00~3F (HEX).

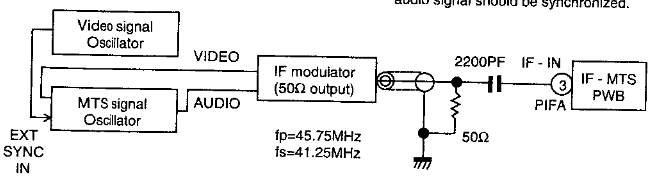
1-3-3 Separation Adjustment (Low)

Adjustment Preparation

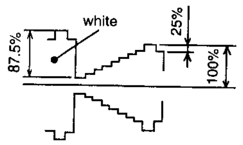
(1) Select the "INPUT LEVEL" on "MTS ADJ" mode.

(2) Apply the signal to pin③of MAIN PWB using the jig shown below.

When using the jig, video signal and audio signal should be synchronized.



IF modulator output signal waveform
(Color bar or all white)



IF modulator output level and P/S

P=106dBu (50 ohm termination)
S level; -3dB
At this time, S/N ratio of F/E video output is 45dB or less.

Sound Modulation Condition

- Noise reduction encoder : ON
- Stereo signal : ①R=0 (L only), 300Hz, 30% modulation (see note).
  ②R=0 (L only), 3KHz, 30% modulation (see note).
- Monaural signal: ③monaural, 400Hz, 100% modulation (PRE-EN OFF).
- SAP signal : ④SAP, 300Hz, 30% modulation (see note).

Note 1: Use the sound modulator with a frequency characteristic within +1% during 50Hz~100KHz.

Note 2: Turn off the noise reduction encoder (NR) and set the modulation degree to 30%, and then turn the NR. Set the modulation degree output to low frequency signal generator. Leave the sound modulator VR of the IF modulator as it is.

(3) Connect an AC voltmeter to IA01 pin ㉖ R-OUT.

Adjustment Procedure

(1) Select sound input signal③ and, adjust the data to 500±10mVrms of Vo.
Note: Variable range of Data: 00~3F (HEX).

1-3-4 Separation Adjustment (High)

Adjustment Preparation

(1) Connect an oscilloscope to IA01 pin ㉖ R-OUT.

(2) Same as in item 1-3-3 (2).

(3) Set "MTS" to "STEREO".

Adjustment Procedure

(1) Select the "SEPARATION (L)" on "MTS ADJ" mode.

(2) Select sound input signal ①and adjust the data so that 300Hz level is minimum.
Note: Variable range of data: 00~3F (HEX).

(3) Select the "SEPARATION (H)" on "MTS ADJ" mode.

(4) Select sound input signal②and adjust the data so that 3KHz level is minimum.
Note: Variable range of data: 00~3F (HEX).

(5) Repeat (1) and (4).
Note: • Adjustment precision: within +1dB from minimum point.
• "STEREO" should be displayed on the screen.

1-3-5 SAP VCO Adjustment

Adjustment Preparation

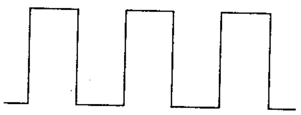
(1) Select the "SAP VCO" mode.

(2) Connect a frequency to IA01 pin ㉖ R-OUT.
Note: • Use the probe of 1:1.
• Probe standard Ri≥1MΩ, Ci≤15pF.

(3) The input of IA01 pin⑦AUDIO in is no signal.

Adjustment Procedure

(1) Adjust the data to 78.67±0.5KHz by a frequency counter.
Note: • Variable range of data: 00~3F (HEX).
• Wave form of IA01 pin ㉖ R-OUT.



1-3-6 SAP Reception Check

Adjustment Preparation

(1) Same as in item 1-3-3 (2).

(2) Connect an oscilloscope to IA01 pin ㉖ R-OUT.

(3) Set "MTS" to "SAP".

Adjustment Procedure

(1) Select an audio input signal ① The output level at this time is represented by VST.

(2) Select an audio input signal ④ Check that the output level at this time is almost the same as VST. ("SAP" should be displayed at this time.)

1-4 AFC Operation Check

Adjustment Preparation

(1) Connect the jig as shown to the ANT terminal.

Adjustment Procedure

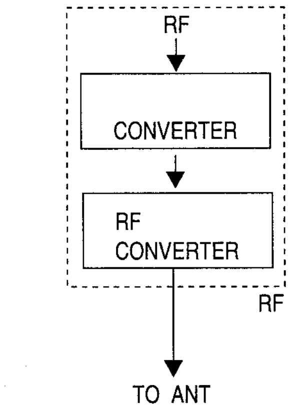
(1) Receive a standard carrier signal (not offset) with the channel UP/DOWN or direct selection buttons.
Check that is pulled into the standard tuning point.

(2) Receive an offset signal of ±1.5MHz.
Check that it is pulled into the standard tuning point.
(Perform the channel selection operation again.)

(3) Receive an offset signal of -1.5MHz.
Check that it is pulled into the standard tuning point.
(Perform the channel selection operation again).

Note 1: Modulation signal should be used at the circle pattern and the color bar signal.

Checking jig (all channel converter can be used)



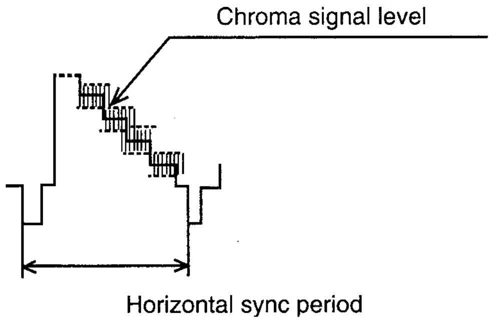
1-5 Comb Filter Adjustment Check

Preparation for Adjustment

(1) Receive the color bar signal at the regular tuning point.
(2) Connect an oscilloscope to the emitter of Q312.
(3) Set the contrast to maximum (+31) and set the other controls to center.
(4) Set the AI to off.

Adjustment Procedure

(1) Check that the residual chroma signal level is 50mVp-p or less.
Note: The chroma signal level is the point shown below.



Remarks:
Use a 10:1 probe.
Use an oscilloscope with a 20mV/div. resolution.

1-6 Channel Selection and Operation Check of Each Key

1-6-1 On-Screen Display Position Check

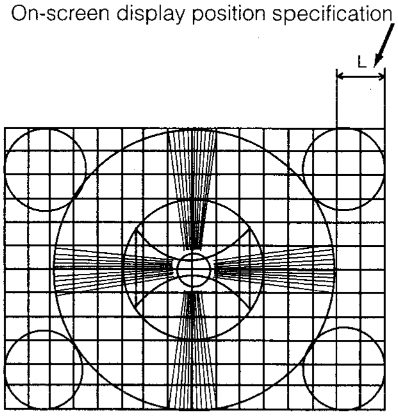
Preparation for Adjustment

(1) Receive a circle pattern signal.
(2) Press the [RECALL] button of the remote control transmitter to display the channel number.

Adjustment Procedure

(1) Check that the right end of the displayed number is at the position shown below.

SIZE	L mm
35V	85±10
32V	70±10



1-6-2 Remo-Con Operation Check

1-6-2-1 Direct Channel Selection

Adjustment Procedure

(1) Input a channel number using the "0" to "9" buttons. Check that the input number matches the displayed channel number, and also the picture received matches the channel number.

1-6-2-2 LST-CH

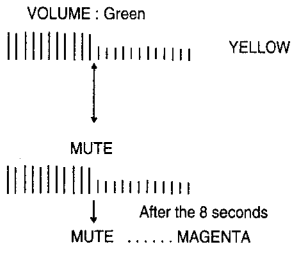
Adjustment Procedure

(1) Check that the channel being received alternates with the channel received immediately before every time the [LST-CH] button is pressed.

1-6-2-3 MUTE

Adjustment Procedure

(1) Check that sound alternates between mute and normal every time the [MUTE] button is pressed.



1-6-2-4 RECALL

Adjustment Procedure

(1) Check that the On-Screen Display is turned ON and OFF alternately every time the [RECALL] button is pressed.

1-6-3 Channel Selection Operation Check

1-6-3-1 POWER

Preparation for Adjustment

(1) Set so that the VHF/UHF/CATV signal can be received.

Adjustment Procedure

(1) Every time the POWER button is pressed, the power should alternate between ON and OFF.

1-6-3-2 CH UP/DOWN

Adjustment Procedure

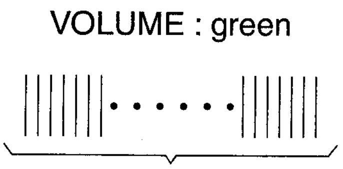
(1) Every time the CH UP (▲) or CH DOWN (▼) button is pressed, the normal reception should be displayed for VHF, UHF and CATV.
★ Check that the On-Screen Display corresponding to the received contents can be displayed.
★ ANT indication color. (For 35UX80B only)

ANT	CH Display Color
V/U	Green
AUX	Yellow

1-6-3-3 VOL UP/DOWN

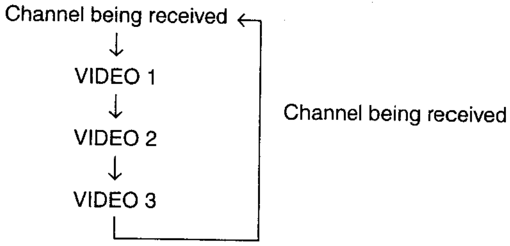
Adjustment Procedure

(1) Every time the VOL UP (▲) or VOL DOWN (▼) button is pressed, the volume should increase/decrease continuously.
★ Check that the On-Screen Display changes.


VOLUME : green

1-6-3-4 AVX Selection

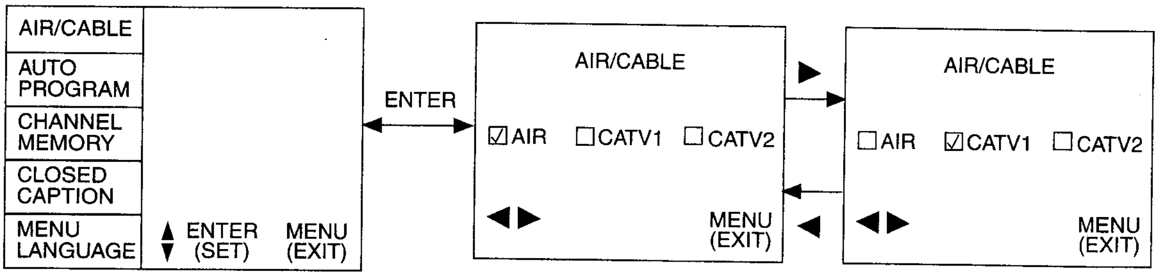
(1) Every time the AVX selection button is pressed, the input of the picture displayed on the screen changes in sequence as shown below.


Channel being received
VIDEO 1
VIDEO 2
VIDEO 3
Channel being received

★ Check that the contents of the picture displayed on the screen matches the current On-Screen Display.
★ With VIDEO 1 and VIDEO 3, if the S input is used, "(S-IN)" is displayed.

1-6-3-5 Set Up Mode

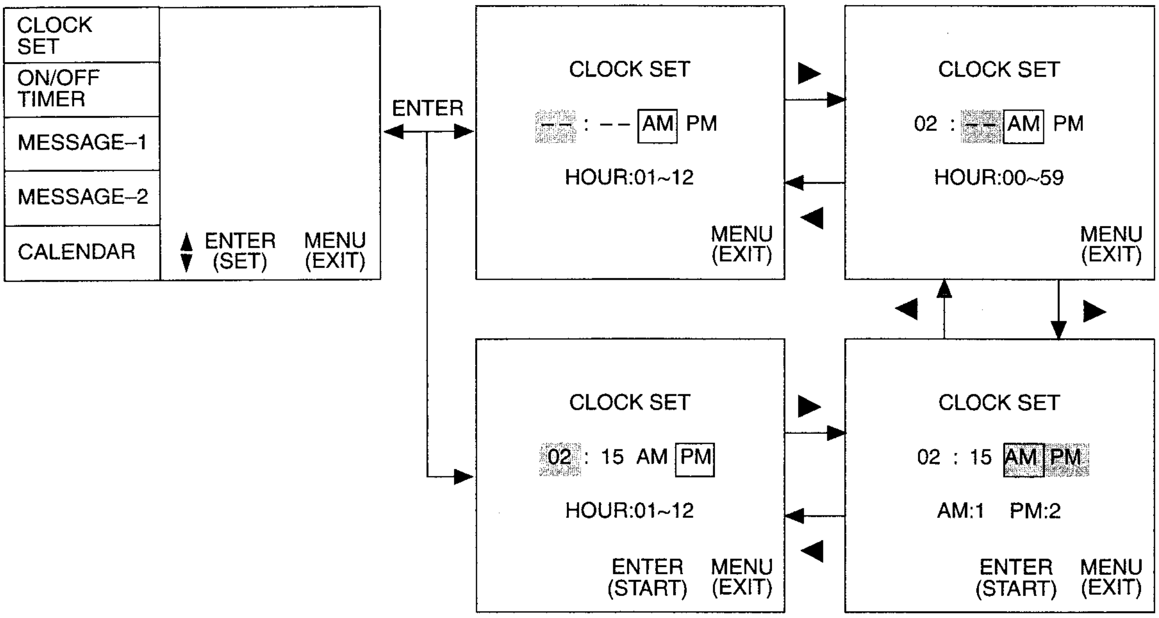
No.	Item		Specification	Remarks
1	SET UP MODE AIR/CABLE	(1) (2)	Press the ENTER button to select AIR/CABLE mode. The mode should change the AIR mode, the CATV mode or the CATV2 mode using the ◀ ▶ button. The band received should match the display on the screen.	

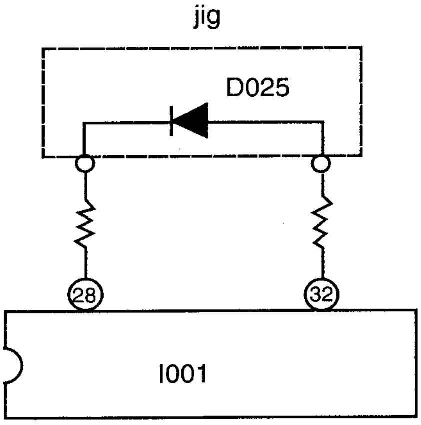

AIR/CABLE
AUTO PROGRAM
CHANNEL MEMORY
CLOSED CAPTION
MENU LANGUAGE
▲▼ ENTER (SET)
MENU (EXIT)
ENTER
AIR/CABLE
☑AIR ☐CATV1 ☐CATV2
◀▶
MENU (EXIT)
▶
◀
AIR/CABLE
☐AIR ☑CATV1 ☐CATV2
◀▶
MENU (EXIT)

1-6-3-6 Clock Set

No.	Item		Specification	Remarks
1	CLOCK MODE CLOCK SET	(1) (2) (3) (4)	Press the ENTER button to set CLOCK SET mode. The CLOCK SET should be set using the 0~9 button. And the clock is started using the ENTER button. Connect the jig. D025 to I001 between pin ㉘ and pin ㉜. Check that the clock indication is displayed using the RECALL button. And the clock indication is going by 1 second per minute.	*The addition of a diode intends to check counting operation as 60 times mode.

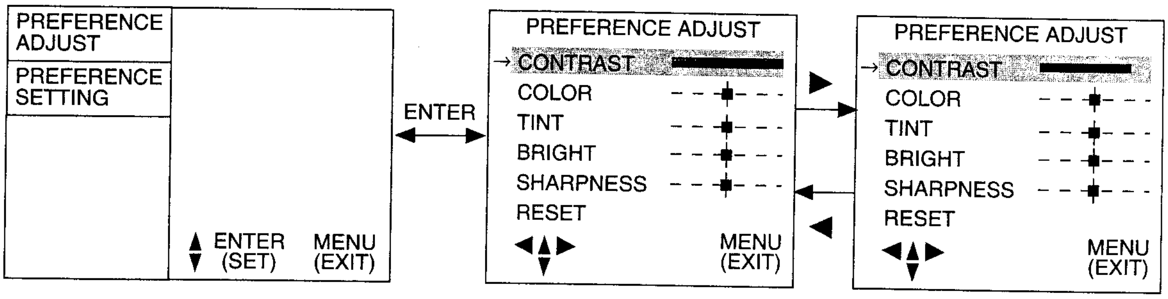
1-6-3-6 Clock Set


CLOCK SET
ON/OFF TIMER
MESSAGE–1
MESSAGE–2
CALENDAR
ENTER (SET)
MENU (EXIT)
ENTER
CLOCK SET
– – : – – AM PM
HOUR:01~12
MENU (EXIT)
CLOCK SET
02 : – – AM PM
HOUR:00~59
MENU (EXIT)
CLOCK SET
02 : 15 AM PM
HOUR:01~12
ENTER (START)
MENU (EXIT)
CLOCK SET
02 : 15 AM PM
AM:1 PM:2
ENTER (START)
MENU (EXIT)


jig
D025
28
32
I001

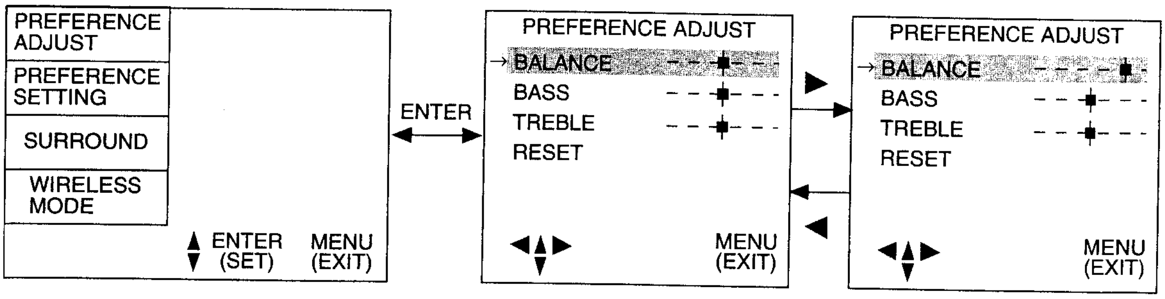
1-6-3-7 Video Mode

No.	Item		Specification	Remarks
1	VIDEO MODE	(1)	Press the ENTER button to select PREFERENCE ADJUST mode.	
	PREFERENCE ADJUST	(2)	The CONTRAST is changed by the ◀▶ button. ▶ : Gets stronger ◀ : Gets weaker	
		(3)	The COLOR is changed by the ◀▶ button. ▶ : Gets denser ◀ : Gets thinner	
		(4)	The TINT is changed by the ◀▶ button. ▶ : Gets greenish ◀ : Gets reddish	
		(5)	The BRIGHT is changed by the ◀▶ button. ▶ : Black rises ◀ : Black sinks	
		(6)	The SHARPNESS is changed by the ◀▶ button. ▶ : Gets harder ◀ : Gets softer	
		(7)	RESET: Press the ENTER button to return PREFERENCE ADJUST function to factory settings.	


PREFERENCE ADJUST
PREFERENCE SETTING
▲▼ ENTER (SET)
MENU (EXIT)
ENTER
PREFERENCE ADJUST
→CONTRAST
COLOR
TINT
BRIGHT
SHARPNESS
RESET
MENU (EXIT)
▶
◀
PREFERENCE ADJUST
→CONTRAST
COLOR
TINT
BRIGHT
SHARPNESS
RESET
MENU (EXIT)

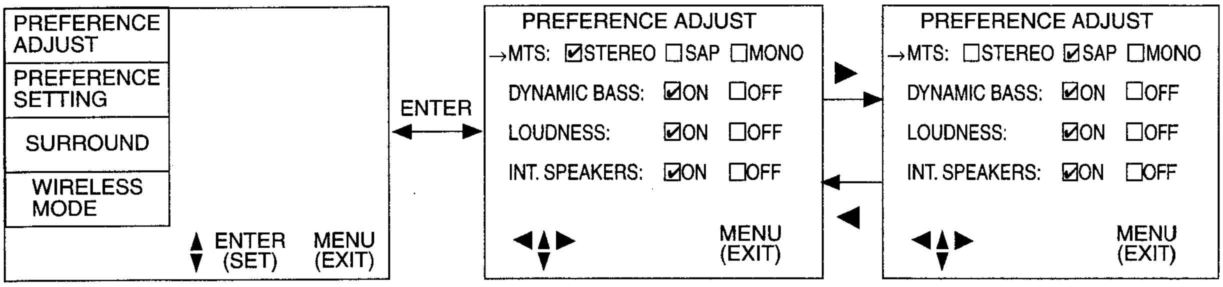
1-6-3-8 Audio Mode

No.	Item		Specification	Remarks
1	AUDIO MODE	(1)	Press the ENTER button to select PREFERENCE ADJUST mode.	
	PREFERENCE ADJUST	(2)	The BALANCE is changed by the ◀▶ button. ▶ : Sound balance moves to right ◀ : Sound balance moves to left	
		(3)	The BASS is changed by the ◀▶ button. ▶ : Bass is emphasized ◀ : Bass is suppressed	
		(4)	The TREBLE is changed by the ◀▶ button. ▶ : Treble is emphasized ◀ : Treble is suppressed	
		(5)	RESET: Press the ENTER button to return PREFERENCE ADJUST function to factory settings.	


PREFERENCE ADJUST
PREFERENCE SETTING
SURROUND
WIRELESS MODE
▲▼ ENTER (SET)
MENU (EXIT)
ENTER
PREFERENCE ADJUST
→BALANCE
BASS
TREBLE
RESET
MENU (EXIT)
▶
◀
PREFERENCE ADJUST
→BALANCE
BASS
TREBLE
RESET
MENU (EXIT)

1-6-3-8 Audio Mode

No.	Item		Specification	Remarks
2	PREFERENCE SETTING	(1)	Press the ENTER button to select PREFERENCE SETTING mode.	
		(2)	When the MTS is selected STEREO, SAP or MONO using the ◀▶ button, the output sound changes.	
		(3)	When the DYNAMIC BASS is selected ON or OFF using the ◀▶ button, the BASS is emphasized when ON.	
		(4)	When the LOUDNESS is selected ON or OFF using the ◀▶ button, the BASS and TREBLE are emphasized when ON.	
		(5)	The INT. SPEAKERS could be selected ON or OFF using the ◀▶ button.	


PREFERENCE ADJUST
PREFERENCE SETTING
SURROUND
WIRELESS MODE
▲▼ ENTER (SET)
MENU (EXIT)
ENTER
PREFERENCE ADJUST
→MTS: ☑STEREO ☐SAP ☐MONO
DYNAMIC BASS: ☑ON ☐OFF
LOUDNESS: ☑ON ☐OFF
INT. SPEAKERS: ☑ON ☐OFF
◀▲▼▶
MENU (EXIT)
▶
◀
PREFERENCE ADJUST
→MTS: ☐STEREO ☑SAP ☐MONO
DYNAMIC BASS: ☑ON ☐OFF
LOUDNESS: ☑ON ☐OFF
INT. SPEAKERS: ☑ON ☐OFF
◀▲▼▶
MENU (EXIT)

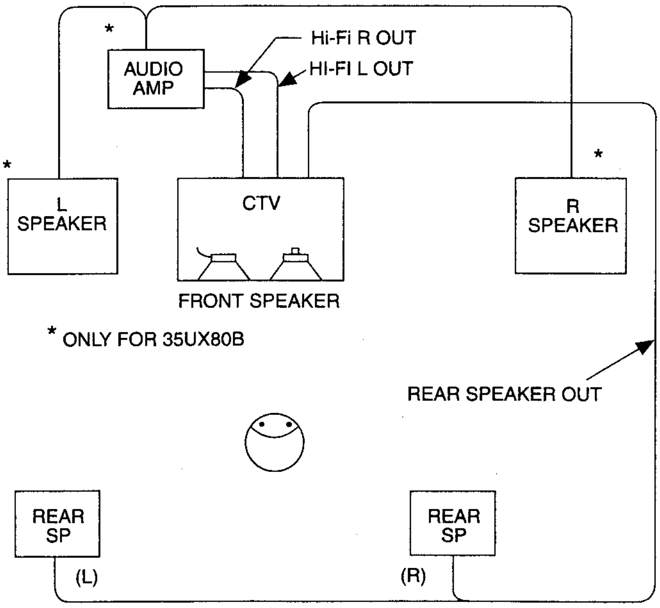
1-6-3-9 Preparation for SURROUND Check

Set the AUDIO modes as follows.

BASS : CENTER
TREBLE : CENTER
BALANCE : CENTER
INT. SPEAKER : ON
DYNAMIC BASS : OFF
SURROUND : DOLBY PRO LOGIC (ONLY FOR 35UX80B)
: DOLBY SURROUND (EXCEPT FOR 35UX80B)
LOUDNESS : OFF

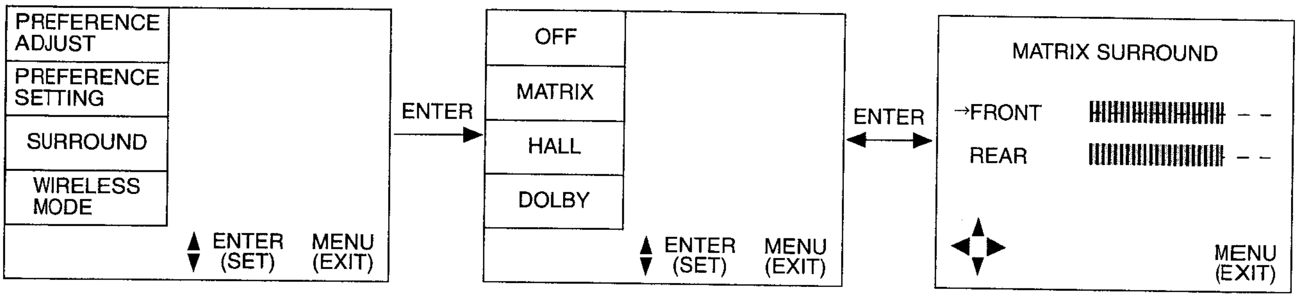
Set so that each level of the following outputs can be monitored from their waveforms.

*	FRONT SPEAKER	L output R output
	REAR SPEAKER	L output R output
	AUDIO TO HI-FI	L output R output

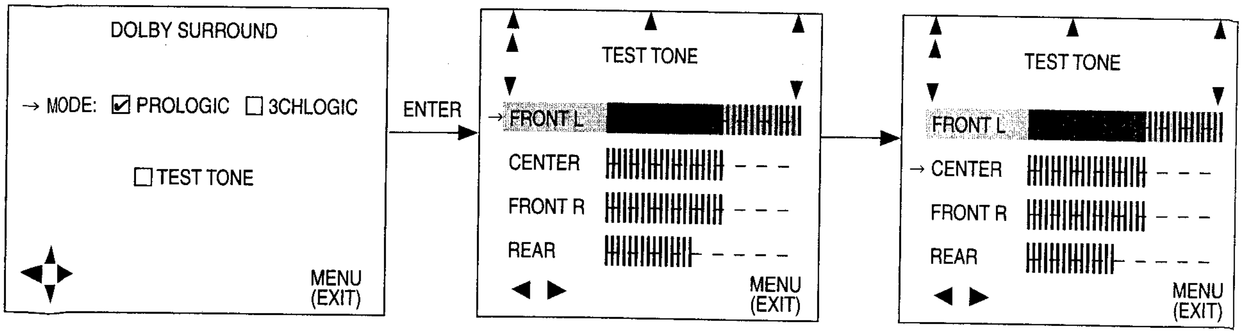

*
AUDIO AMP
Hi-Fi R OUT
HI-FI L OUT
*
L SPEAKER
CTV
FRONT SPEAKER
*
R SPEAKER
REAR SPEAKER OUT
REAR SP
(L)
REAR SP
(R)

* ONLY FOR 35UX80B

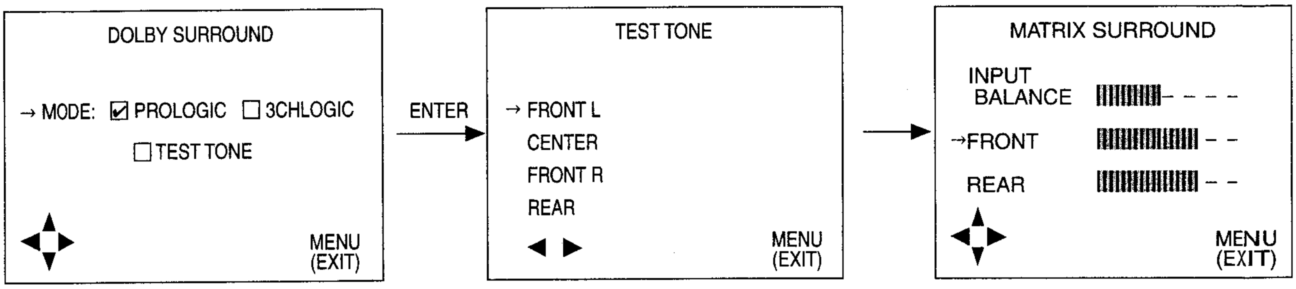
No.	Item		Specification	Remarks
3	SURROUND EXCEPT FOR 35UX80B	(1)	Press the ENTER button to select SURROUND mode.	
		(2)	The SURROUND mode could be selected OFF, MATRIX, HALL or PRO LOGIC using the ▲▼ button.	
		(3)	MATRIX, HALL Mode operation. ① Press the ENTER button to change volume setting mode. The REAR volume could change using the ◀▶ button. ② The range of the REAR volume could be set as follows. $0 \le \frac{\text{REAR volume}}{\text{FRONT volume}} \le 4$ It is not possible that the REAR volume is more than 4 times the FRONT volume. ③ The FRONT volume could be changed using the ◀▶ button. The FRONT and REAR volume should change according to keep the rate of (REAR : FRONT).	


PREFERENCE ADJUST
PREFERENCE SETTING
SURROUND
WIRELESS MODE
▲▼ ENTER (SET)
MENU (EXIT)
ENTER
OFF
MATRIX
HALL
DOLBY
▲▼ ENTER (SET)
MENU (EXIT)
ENTER
MATRIX SURROUND
→FRONT
REAR
MENU (EXIT)

No.	Item		Specification	Remarks
3	SURROUND ONLY FOR 35UX80B	(4)	PRO LOGIC mode operation. ① MODE could be selected PRO LOGIC or 3CH LOGIC using the ◀▶ button. ② The CENTER could be selected NORMAL or PHANTOM using the ◀▶ button.	* At the 3CH LOGIC mode, the CENTER is fixed NORMAL.
		(5)	Press the ENTER button to select TEST TONE mode. ① PRO LOGIC mode. When the CENTER is NORMAL, the TEST TONE synchronized OSD is shown below. NORMAL: FRONT (L)→CENTER→FRONT (R)→REAR PHANTOM: FRONT (L)→FRONT (R)→REAR ② 3CH LOGIC mode. The TEST TONE synchronized OSD is shown below. FRONT (L)→CENTER→FRONT (R)	
		(6)	Check that each volume and BALANCE is changed using the ◀▶ button.	


DOLBY SURROUND
→ MODE: ☑ PROLOGIC ☐ 3CHLOGIC
☐ TEST TONE
MENU (EXIT)
ENTER
TEST TONE
→FRONT L
CENTER
FRONT R
REAR
MENU (EXIT)
TEST TONE
FRONT L
→ CENTER
FRONT R
REAR
MENU (EXIT)

No.	Item		Specification	Remarks
3	SURROUND ONLY FOR 35UX80B	(7)	Press the ENTER button to select SURROUND mode.	
		(8)	The SURROUND mode could be selected OFF, MATRIX, HALL or DOLBY using the ▲▼ button.	
		(9)	MATRIX, HALL mode operation. ① Press the ENTER button to change volume setting mode. ② The REAR volume would change using the ◀▶ button. The range of the REAR volume could be set as follows. $0 \le \frac{\text{REAR volume}}{\text{FRONT volume}} \le 4$ It is not possible that the REAR volume is more than 4 times of FRONT volume. ③ The FRONT volume could be changed using the ◀▶ button. The FRONT and REAR volume should change according to keep the rate of (REAR : FRONT). ④ The L and R output (both front and rear) should be changed using the ◀▶ button.	



1-6-3-10 ANT Selection (Only for 35UX80B)

Adjustment Procedure

(1) Check that the color of the channel indication alternates between green and yellow every time the ANT select button is pressed and the channel corresponding to the display can be received.

Green : VHF/UHF terminal
Yellow : AUX terminal

The signals connected to each ANT terminal should be able to be received.

1-6-4 AI Mode Operation Check

Adjustment Preparation

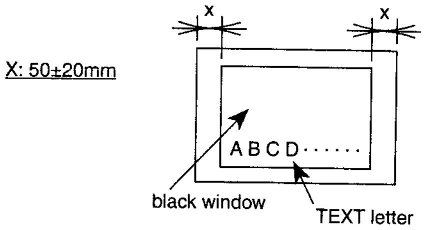
(1) Set the AI:ON of VIDEO mode.
(2) Set the RESET OF PREFERENCE ADJUST mode.

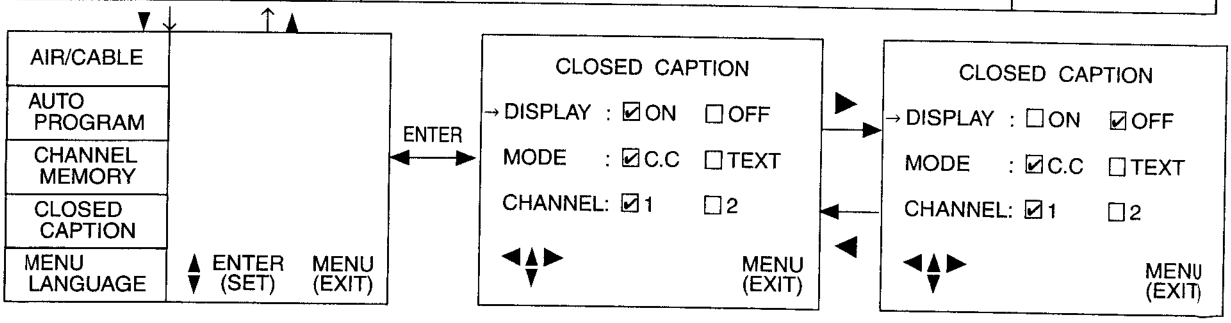
Adjustment Procedure

(1) Check that the SHARPNESS voltage, the YNR 2 voltage and P. MODE voltage are shown below with AI:ON and AI:OFF.

	AI: OFF	AI: ON		
		CIRCLE PATTERN	COLOR BAR PATTERN	CROSS HATCH PATTERN
SHARPNESS I501 Pin ③	about 4.6V	about 3.0V	about 5.4V	about 3.0V
Q506 BASE	about 3.1V	about 3.6V	about 4.0V	about 4.3V
I501 Pin (62)	about 9.0V	Check that the voltage is decreased when signal condition has a weak field.		

1-6-5 CCD Operation Check

No.	Item	Specification		Remarks
1	CLOSED CAPTION	(1)	Press the MENU and ENTER button to select CLOSED CAPTION mode.	Receive signal having Closed Caption signal.
		(2)	The DISPLAY mode should be set ON using the ◀▶ button. The MODE should be set C.C. using the ◀▶ button. The CHANNEL mode should be set 1 using the ◀▶ button.	
		(3)	Check the CAPTION corresponding to the setting displayed on the screen.	
		(4)	Set CHANNEL to 2. Check that the CAPTION of CHANNEL 2 is displayed on the screen.	* Reading error should not occur on every mode. The contents of error. 1. Wrong leters are displayed. 2. Letter omitting. 3. Other abnormal display.
		(5)	Set CHANNEL to 1. Check that the CAPTION of CHANNEL 1 (FIELD 2) is displayed on the screen.	
		(6)	Set the MODE to TEXT. Check that a black window appears and TEXT letters are displayed at the center of screen.	
		(7)	Repeat from (4) to (5), and check that TEXT letters are displayed.	
		(8)	Set the MODE to C.C. The black window should disappear.	
		(9)	Set the DISPLAY to OFF. Check that the CAPTION letters disappear.	
			 x x X: 50±20mm ABCD······ black window TEXT letter	



CLOSED CAPTION
→ DISPLAY : ☑ON ☐OFF
MODE : ☑C.C ☐TEXT
CHANNEL: ☑1 ☐2

CLOSED CAPTION
→ DISPLAY : ☐ON ☑OFF
MODE : ☑C.C ☐TEXT
CHANNEL: ☑1 ☐2

1-6-6 External Terminal Operation Check

Preparation for Adjustment

(1) Input a signal to the INPUT 1 terminals (V, L/R).

Adjustment Procedure

(1) External input check.
  i) Check that the picture and sound of VIDEO 1 can be monitored.

Preparation for Adjustment

(2) Input a signal to the INPUT 1 (S input) terminal.
  ii) Check that the picture of VIDEO 1 (S input) can be monitored.
(3) Input a signal to the INPUT 2 terminals (V, L/R).
  iii) Check that the picture and sound of VIDEO 2 can be monitored.
(4) Input a signal to the INPUT 3 (S input) terminal.
  iv) Check that the picture of VIDEO 3 (S input) can be monitored.
(5) Input a signal to the INPUT 3 terminals (V, L/R).
  v) Check that the picture and sound of VIDEO 3 can be monitored.
(6) OUTPUT Terminal.

Adjustment Procedure

(2) External output check
  i) Check that the picture and sound can be monitored. (Sound control is fixed.)

Preparation for Adjustment

(7) AUDIO TO HiFi terminal
  ii) Check that sound from the speaker can be monitored.
(8) REAR SPEAKER terminals
  iii) Check that sound from the speaker can be monitored. (When surround is turned OFF.)

☆ The S input has priority.
☆ Sound is output from both L and R with only L input. (L monaural when input a signal to the INPUT 1 and INPUT 2.)

☆ Check with the VIDEO mode.
☆ Check that the BASS, TREBLE, BALANCE, VOLUME, MUTE and SURROUND are effective.
☆ Refer to the surround operation check for detail.

1-6-7 P in P Operation Check

1-6-7-1 SUB PICTURE Position

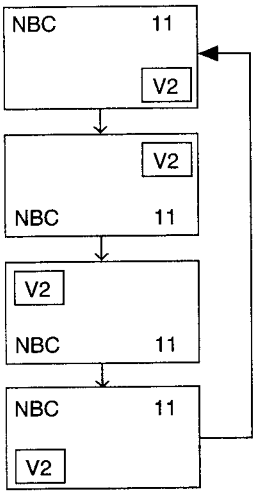
Preparation for Adjustment

(1) Set the P in P to ON.

Adjustment Procedure

(1) Check that the positon of the sub picture is changed as shown below using the SHIFT button of the remote control transmitter.

- Station display : "NBC"
  CH display : 11
  SUB picture mode : "V2"
- The SHIFT button should work only when P in P is ON.


NBC
11
V2
V2
NBC
11
V2
NBC
11
NBC
11
V2

1-6-7-3 SWAP (EXCHANGE of the main and SUB PICTURES)

Preparation for Adjustment

(1) Turn the P in P to ON.

Adjustment Procedure

(1) Check that the main and sub picture are swapped using the SWAP or EXCHANGE button of the remote control transmitter.

- Sound should also be swapped, synchronized with picture.

1-6-7-3 Sub Pictures Freeze

Preparation for Adjustment

(1) Turn the P in P to ON.
(2) Set the sub picture to the normal (moving) state.

Adjustment Procedure

(1) Check that the sub picture alternates between freeze and release using the FREEZE button of the remote control transmitter.

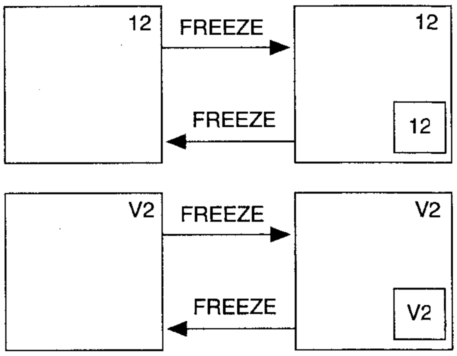
- The freeze should not be released by changing the sub picture position.
- The freeze should be released by the main sub pictures exchange operation.
- The freeze should be released by the channel selection operation when the sub picture is set to the TV mode.

1-6-7-4 P in P OFF Freeze

(Only for 35UX70B/35UX70BA/35TX79K/32UX8B)

Preparation for Adjustment

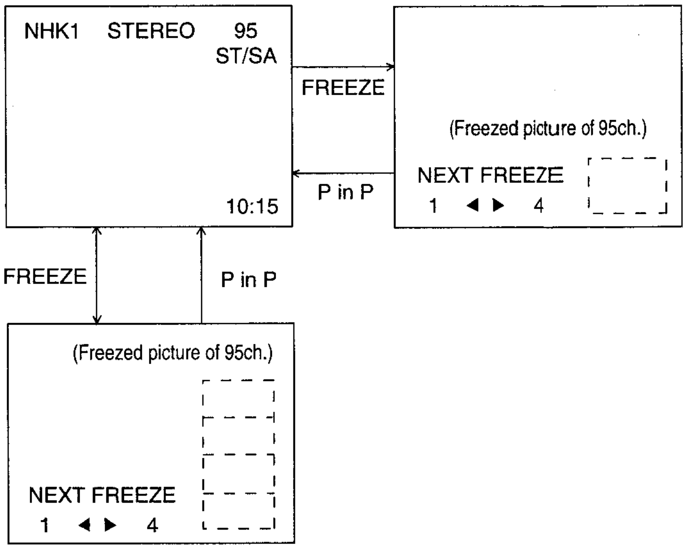
(1) Check that the sub picture changes on state and off state the same as main picture and freeze state using the freeze button.


12
FREEZE
12
FREEZE
12
V2
FREEZE
V2
FREEZE
V2

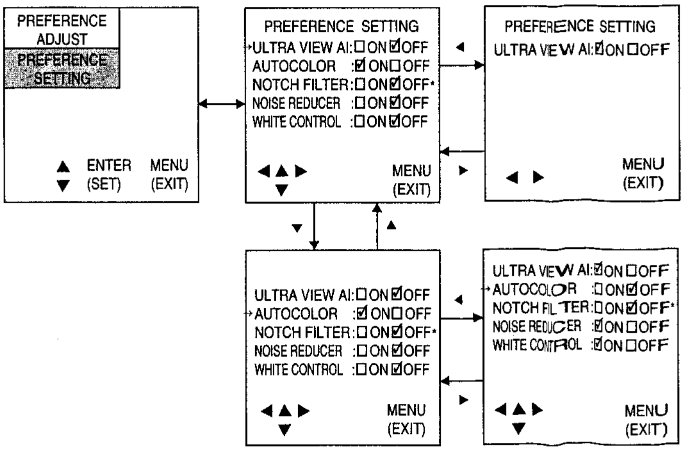
1-6-7-5 P in P OFF Freeze (only for 35UX80B)

Preparation for Adjustment

(1) Check that the sub picture changes on state and off state the same as main picture and freeze state using the freeze button.


NHK1 STEREO 95
ST/SA
10:15
FREEZE
P in P
(Freezed picture of 95ch.)
NEXT FREEZE
1 ◀ ▶ 4
FREEZE
P in P
(Freezed picture of 95ch.)
NEXT FREEZE
1 ◀ ▶ 4

1-7 Signal Circuit Movement Operation Check


PREFERENCE ADJUST
PREFERENCE SETTING
▲ ▼ ENTER (SET)
MENU (EXIT)
PREFERENCE SETTING
ULTRA VIEW AI:☐ON☑OFF
AUTOCOLOR :☑ON☐OFF
NOTCH FILTER:☐ON☑OFF*
NOISE REDUCER :☐ON☑OFF
WHITE CONTROL :☐ON☑OFF
◀▲▶▼
MENU (EXIT)
PREFERENCE SETTING
ULTRA VIEW AI:☑ON☐OFF
◀ ▶
MENU (EXIT)
◀
▶
▼
▲
ULTRA VIEW AI:☐ON☑OFF
AUTOCOLOR :☑ON☐OFF
NOTCH FILTER:☐ON☑OFF*
NOISE REDUCER :☐ON☑OFF
WHITE CONTROL :☐ON☑OFF
◀▲▶▼
MENU (EXIT)
ULTRA VIEW AI:☑ON☐OFF
AUTOCOLOR :☐ON☑OFF
NOTCH FILTER:☐ON☑OFF*
NOISE REDUCER :☑ON☐OFF
WHITE CONTROL :☑ON☐OFF
◀▲▶▼
MENU (EXIT)

*ONLY FOR
35TX79K
35UX70B
35UX70BA

1-7-1 Dimmer Control Operation Check

Preparation for Adjustment

(1) Select the PICTURE SETTING Mode with the main picture.
(2) Select the AI mode by pressing the ▲ ▼ key.

Adjustment Procedure

(1) Set the AI:ON by pressing the ◀ ▶ key of the remote control transmitter, and check that the display becomes dark when the front of the QM02 (light detector transistor on the control P.W.B.) is covered with hands.
(2) Set the AI:OFF by pressing the ◀ ▶ key, and check that the contrast of the display returns.

1-7-2 Auto Color Circuit Operation Check

Preparation for Adjustment

(1) Receive the color-bar signal.
(2) Select the AUTO COLOR Mode by pressing ▲ ▼ key.

Adjustment Procedure

(1) Set color control: MAXIMUM.
(2) Set AUTO COLOR: OFF by pressing the ◀ ▶ key, and check that the saturation level of the red color bar increases slightly.
(3) Return the AUTOCOLOR: OFF by pressing the ▲ ▼ key.
(4) Return the color control to center.

1-7-3 Noise Reducer Circuit Operation CHeck

Preparation for Adjustment

(1) Receive the color-bar signal.
(2) Select the NOISE REDUCER Mode by pressing the ◀ ▶ key.

Adjustment Procedure

(1) Set NOISE REDUCER: ON by pressing the ◀ ▶ key of the remote control transmitter, and check that the noise is reduced.

1-7-4 Notch Filter Circuit Operation Check

Preparation for Adjustment

(1) Receive the color-bar signal.
(2) Select the NOTCH FILTER mode.

Adjustment Procedure

(1) Set the NOTCH FILTER: ON by pressing the ◀ ▶ key and check that the dot interference on horizontal color border line of the color-bar is reduced.
(2) Set the NOTCH FILTER: OFF by pressing the ◀ ▶ key.

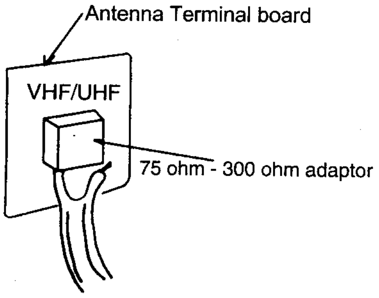
1-7-5 Weak Electric Field Check

Adjustment Preparation

(1) Connect one side of the 300 ohm feeder to 75 ohm–300 ohm antenna adaptor. Connect the antenna adaptor to the VHF antenna terminal board as shown below.
(2) Apply a no signal condition.

Adjustment Procedure

(1) Check that the phenomena of oscillation and abnormal beat, etc. does not occur in all the channel.



2. POWER SUPPLY P.W.B.

2-1 Power Supply P.W.B. Voltage Check

Preparation for Adjustment

(1) Set the AC input power supply too120± 1V (distortion 3% or less).
(2) Receive a circle pattern signal.
(3) Set the Contrast Brightness control to maximum.
(4) Measure about 30 seconds after the power is turned on.

Adjustment Procedure

(1) Connect the DC voltmeter to R908.
(2) Adjust R928 so that the indication of the DC voltmeter is 130.0±0.3V.

2-2 Protection Circuit Operation Check

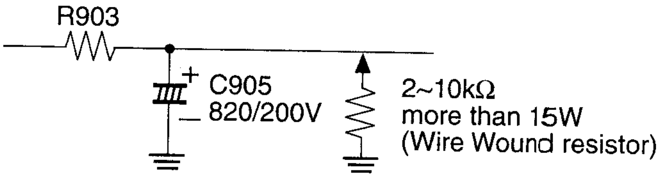
2-2-1 +20V Audio Power Supply

Preparation for Adjustment

(1) CONTRAST to maximum, BRIGHTNESS to center.

Adjustment Procedure

(1) Connect a 10kΩ resistor between Q945 base and GND and check that the picture disappears.
(2) Disconnect resistor immediately and the power cord.
(3) Discharge C905 as follows.



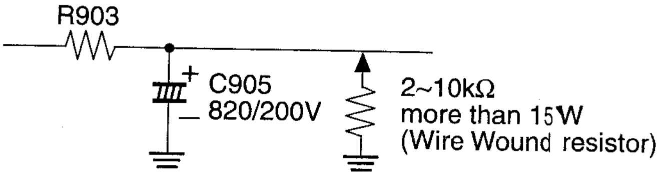
2-2-2 +26V Audio Power Supply

Preparation for Adjustment

(1) CONTRAST to maximum, BRIGHTNESS to center.

Adjustment Procedure

(1) Connect a 10kΩ resistor between Q963 base and GND and check that the picture disappears.
(2) Disconnect resistor immediately and the power cord.
(3) Discharge C905 as follows.



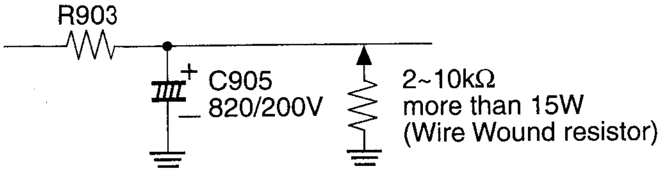
2-2-3 +12V Power Supply

Preparation for Adjustment

(1) CONTRAST to maximum, BRIGHTNESS to center.

Adjustment Procedure

(1) Connect a 10kΩ resistor between Q964 base and GND and check that the picture disappears.
(2) Disconnect resistor immediately and the power cord.
(3) Discharge C905 as follows.



2-2-4 +B Over Voltage

Preparation for Adjustment

(1) CONTRAST to maximum, BRIGHTNESS to center.

Adjustment Procedure

(1) Connect a 10Ω resistor to both ends of R955 and check that the +B voltage goes up and down.

2-3 FBT Protection Circuit Operation Check

Preparation for Adjustment

(1) Turn on the power of the set.

Adjustment Procedure

(1) Add 10KΩ (1/16w~1/8w) resistor between Q713 base and GND (ENH2 connector pin ③) and check the operation.

(2) After checking, remove AC PLUG and the 10K resistor to return the set to the previous state. After about 15 seconds, discharge C906. Turn on the power again, and check the set operates normally.

2-4 High Voltage Limiter Circuit Operation Check

Checking Preparation

(1) Connect the assembly to a standard set.

(2) Connect a high voltage voltmeter between CPT anode terminal (anode capside) and the ground.

(3) Set AC input voltage to 120±3V.

(4) Receive a circle pattern and set "BRIGHTNESS" and "CONTRAST" to maximum. Adjust screen VR so that beam current is I_B±0.1mA. (The voltage of ABL terminal -C741 both ends should be 12V or less.)

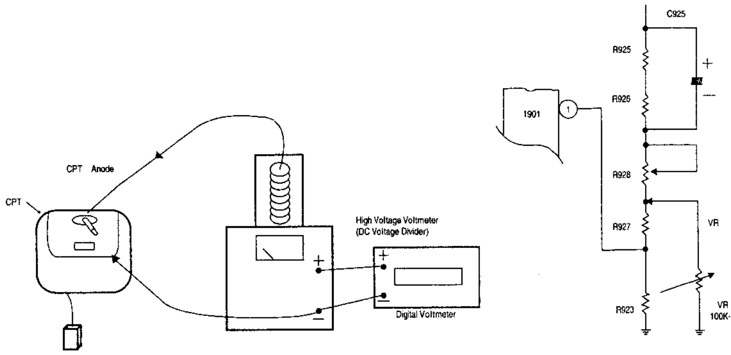
Adjustment Procedure

(5) Check that the normal high voltage and +B voltage is as below.

CHASSIS	E_{HT}	I_B	+B	E1
CZ58/CZ57 CZ57P/CZ56	30.0 (kv) +1kv	1.8 (mA) +0.1mA	130.0 (V) +0.3V	35.5 (kv) +1.3kv
CY58	29.2 (kv) +1kv	1.65 (mA) +0.1mA	130.0 (V) +0.3V	34.0 (kv) +1.3kv

Adjustment Preparation

(6) Set AC input voltage to 120±3V. Then, connect the VR (100K-B) to R927 and ground side as below.
Note: At that time the value of VR should be maximum.



Use a voltmeter of input impedance 10M ohm or more with indication to the 1st decimal place.

Adjustment Procedure

(7) Keep CONTRAST, BRIGHTNESS, and Screen VR as in Item (3). Reduce the VR value gradually, and check that the picture disappears when high voltage is E1. Immediately after checking that it disappears, turn off the set switch. Remove the VR and high voltage voltmeter. When connecting or removing high voltage voltmeter to or from anode cap, be sure to turn off the switch of the set. Also, be sure to perform it after the chassis discharge or residual high voltage, because the high voltage of CPT anode may be left.

2-5 Side Pin Distortion Coarse Adjustment

Adjustment Preparation

(1) Receive a circle pattern signal.

(2) Set the AC input power supply to 120±1V.

(3) For picture controls, set the BRIGHTNESS to center and set the other controls to their standard conditions.

Adjustment Procedure

(1) Vary R7HF so that the right and left vertical lines are straight.

2-6 H. size, H. Center Coarse Adjustment

Adjustment Preparation

(1) Receive a circle pattern signal.

(2) Set the AC input power supply to 120±1V.

(3) Set CONTRAST to maximum and BRIGHTNESS to center.

Adjustment Procedure

(1) Vary R7H6 so that the hoizontal size markers at the right and left end are 1.5–1.5 on the average.

(2) Vary R759 so that the difference of the horizontal size markers at the right and left end are within 1.5.

2-7 Vertical Amplitude Coarse Adjustment (R631)

Adjustment Preparation

(1) Receive a circle pattern signal.

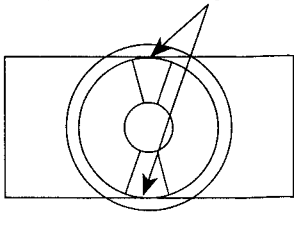
(2) Set the AC input power supply to 120±1V.

(3) For picture controls, set the BRIGHTNESS to maximum and set the other controls to their standard conditions.

Adjustment Procedure

(1) Turn to vertical amplitude adjustment VR (R631) and adjust as shown below.

Adjustment position (inner edge of the outer circle)

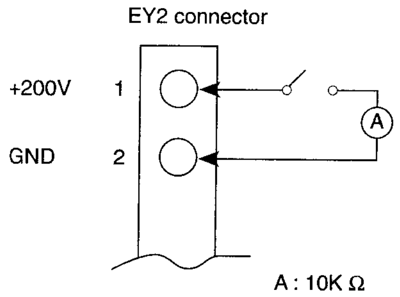


2-8 Discharge of 200V Line

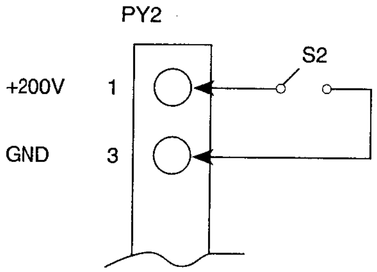
Adjustment Preparation

(1) After the adjustment of assembled P.W.B. and after the checking of mounting, the jig below is connected.

(2) Main P.W.B.



(3) CPT P.W.B.



Adjustment Procedure

(1) After the adjustment and checking the mounting, the power is turned off then close the S1, S2 switch (for 3~5 seconds) and discharge 200V line.

III. COMMON SERVICE ADJUSTMENT

1. DEFLECTION CIRCUIT ADJUSTMENT

1-1 Alteration Contents for Several CPT.

(1) Keep DY sticked to CPT funnel.

(2) Turn on the TV set and receive cross-hatch (or circle pattern signal). Adjust the static convergence coarsely according to Item III, 1-2-4/1-2-5.

(3) Receive circle pattern signal and adjust the white balance according to Item III, 2-1.

(4) Set BRIGHTNESS control and CONTRAST to maximum and apply heat-run to the TV set with circle pattern signal received for "T" minutes or more. (See Table 1-1.)

Table 1-1

MODEL	CPT (MAKER)	MODEL	NOTE
32UX8B (CY58)	(HITACHI) A80LJF30X	40 min.	Non-ITC CPT
35UX70B/35UX70BA (CZ57/CZ57P)	A89LED50X02 (V)	40 min.	ITC CPT
35UX80B (CZ58)	A89AGF11X10	40 min.	ITC CPT
35TX79K (CZ56)	A89LFL50X01 (V) A89KPP50X01 (V)	40 min.	ITC CPT

Note: ITC CPTs: check purity following item 1-2-2.

1-2 Purity Convergence Adjustment (only for 32UX8B)

(This adjustment method applies the purity adjustment by using microscope.)

1-2-1

(1) Adjust coarsely white balance, static convergence (center) and focus.

(2) Receive circle pattern signal and heat-run "T" minutes or more with CONTRAST and BRIGHTNESS Levels maximum. Do not delete the raster nor vary the perfect raster. (DY and tilt should have been coarsely adjusted.)

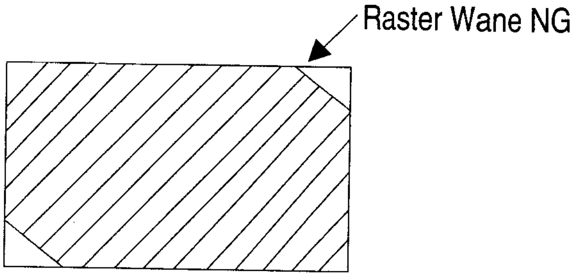


Table 1

MODEL	CPT (MAKER)	T
32UX8B (CY58)	(HITACHI) A80LJF30X	40 min.

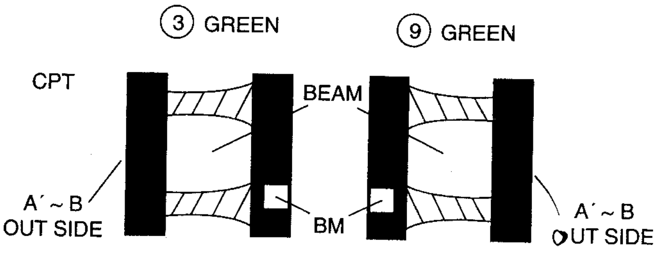
(3) The magnetic field in artificial magnetic field should follow the table below and the CTV set should face as in Table 2. Degauss CTV set from outside.

DESTINATION	VERTICAL FIELD	HORIZONTAL FIELD
USA	0.45 G	0.3 G
CANADA	0.54 G	0.15 G
UNIVERSAL	0.35 G	0.3 G
PANAMA, HAWAII	0.2 G	0.3 G
TAIWAN	0.22 G	0.37 G

Table 2

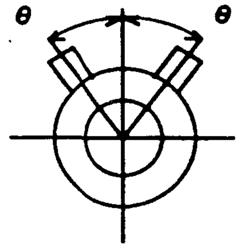
MODEL	CPT (MAKER)	T
32UX8B (CY58)	(HITACHI) A80LJF30X	40 min.

(4) Adjust the position of purity magnet and DY. Keep the landing balance of ③ and ⑨, and adjust so that the landing of ③ and ⑨ is as follows while observing with a microscope.

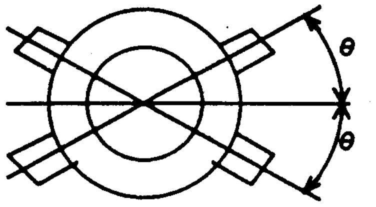


Adjustment point 30mm away from each end of ③ and ⑨

(A) Open the purity magnet as follows in order to move the raster only in the right-left direction.

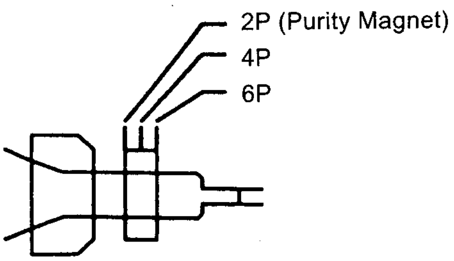


C-F MAGNET
P#2773671



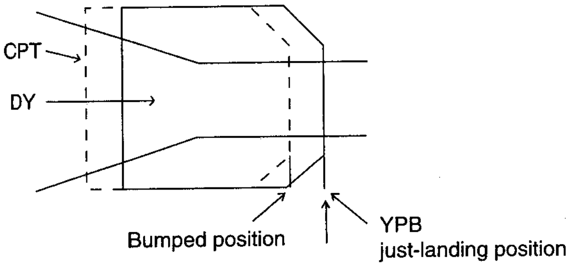
C-F MAGNET
P#2773672/P#2775082
(FOR VM MODEL)

Keep the balance of ③/⑨ DY landing

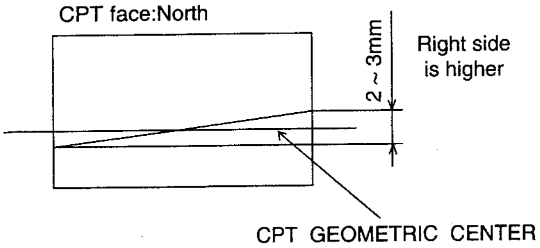

2P (Purity Magnet)
4P
6P

(B) YPB (Yoke Pull-Back) should be as follows. (Distance between the bumped position of DY toward the funnel and the just-landing position of ③ and ⑨.)

MODEL	CPT	MAKER	YPB (DESIGN CENTER)
32UX8B (CY58)	(HITACHI) A80LJF30X	(HITACHI)	2.2mm


CPT
DY
Bumped position
YPB
just-landing position

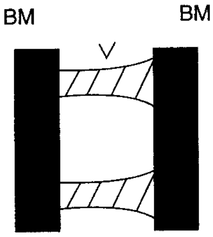
(C) Tilt of DY should be as follows.
Face: North


CPT face:North
2 ~ 3mm
Right side is higher
CPT GEOMETRIC CENTER

(D) Landing at ③ and ⑨: swing the beam right and left using the jig and adjust the position of DY so that green becomes just-landing at the position 30mm away from the end. The following two parts of miss landing should be the same.
One is the miss landing on the right side of the phosphor when turning on the jig switch forward to move the beam toward left...CASE A
The other is the miss landing on the left side of the phosphor where turning on the jig switch backward to move the beam toward right...CASE B.

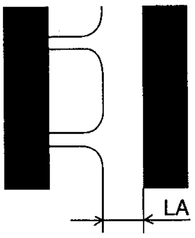
GREEN PHOSPHOR

Fig. 1



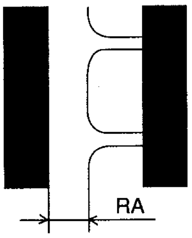
Landing of ③ / ⑨

Fig. 2



LA: miss-landing at CASE A

Fig. 3

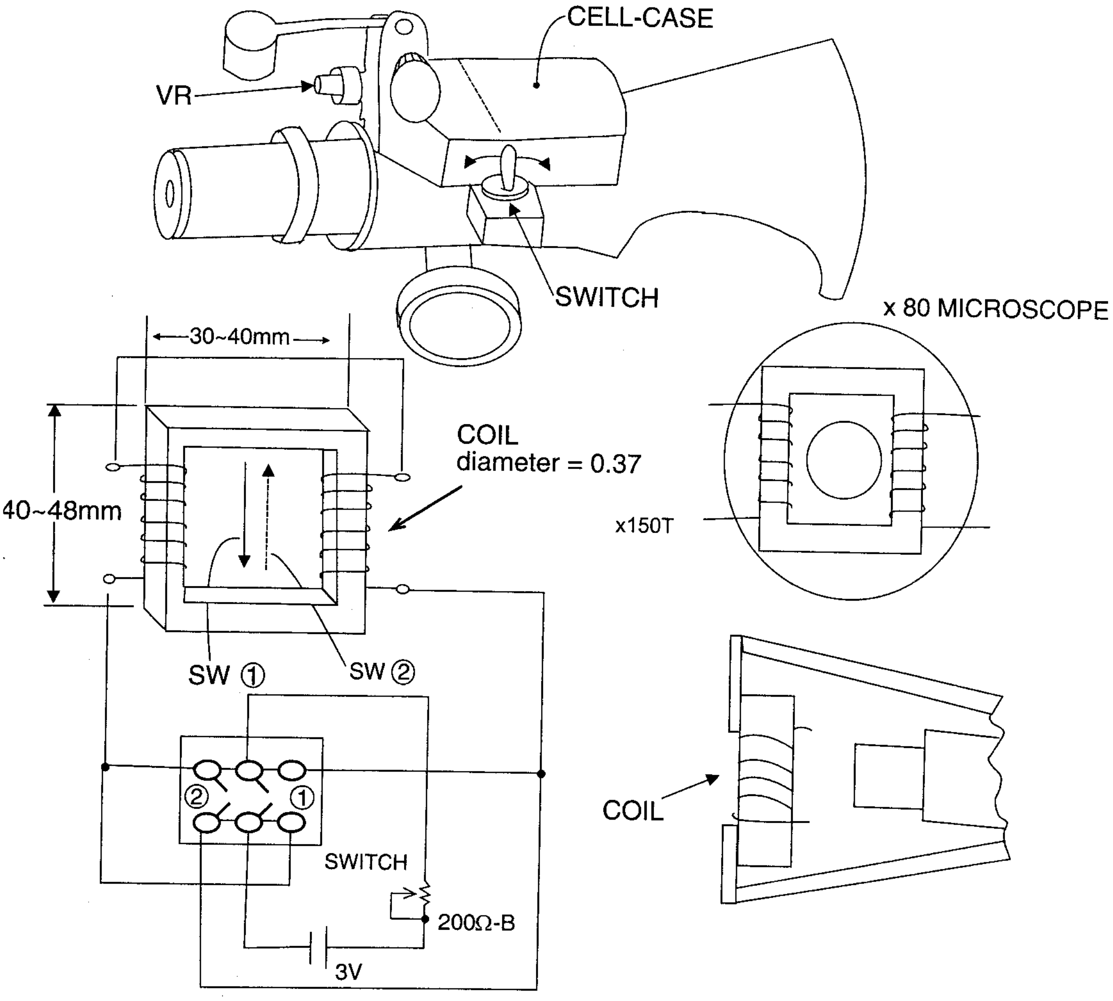


RA: miss-landing at CASE B

Adjustment DY-position as LA=RA.

Reference

THE JIG



Fix coil to CRT side of microscope. Set it upside down and measure it.
Check that beam moves to the right and left equally in quantity.
Be careful at assembly that core does not tilt because upward (downward) magnetic field by coil moves the beam to the right (left) or type MS-50X microscope of KANSAI DENKI.

(5) Fix DY with fixing torque of 14kg·cm.
Control the torque by an electric driver.

(6) If any miss landing occurs, correct with magnets.
If any wane of 10μ or so, judge by white unevenness.
At this time, if the white uneveness is alll right, any magnet is not needed.

(7) After peripheral convergence is adjusted, check the position of DY and tighten the DY again (14kg·cm).

1-2-2 Purity Check

The magnetic field in artificial magnetic field should follow the magnetic field according to the destination, and the set should face as follows.
After degaussing in each direction, check these items visually and with a microscope.

(A) No problem in white uneveness.
(B) Each single color must not hit any other colors.
(C) If white or each single color is defective, apply a magnet(s) on CPT for correction. If any magnet is applied, check it after degaussing.

MODEL	CPT (MAKER)	CHECK FACE
32UX8B (CY58)	(HITACHI) A80LJF30X	North South
35UX70B/35UX70BA (CZ57/CZ57P)	A89LED50X02 (V)	North South
35UX80B (CZ58)	A89AGF11X10	North South
35TX79K (CZ56)	A89LFL50X01 (V) A89KPP50X01 (V)	North South

1-2-3 Purity Adjustment (only for 32UX8B)

(This adjustment method applies to the hand-operated purity adjustment.)

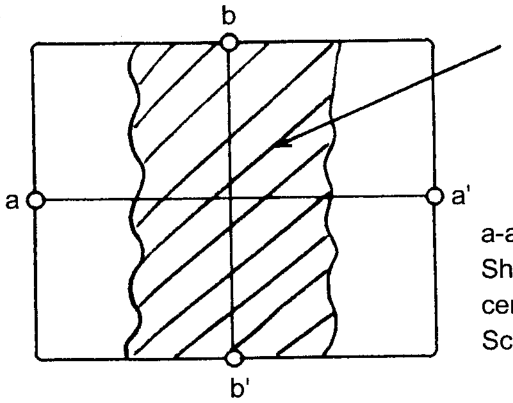
(1) Use an artificial magnetic field and set the field strength as follows.

*Magnetic field in CPT axis direction : 0 Gauss
*Magnetic field which is vertical to CPT axis:

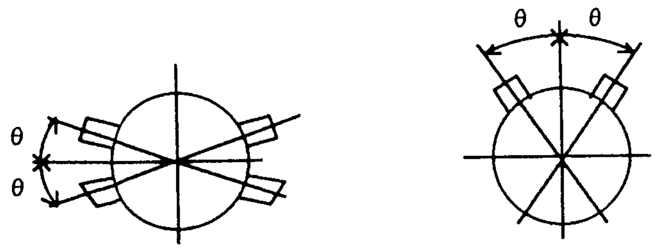
U.S.A., Hawaii, Panama, Guam, Bolivia, Peru, Universal	0.3 Gauss
Canada	0.15 Gauss
Taiwan	0.37 Gauss

(The direction of the magnetic field should be from the left side to the right side of the CPT screen as you face it.)

(2) Adjust Focus coarsely according to Item 1-3.
(3) Adjust Convergence coarsely according to Item 1-2-4/ 1-2-5.
(4) Receive Circle Pattern signal and check that CONTRAST and BRIGHTNESS are maximum.
(5) Receive magenta signal. When the magenta signal is not available, short-circuit between the base and emitter of Q855 to set to magenta.
(6) Press DY fully against CPT funnel and turn the purity magnet so that the vertical magenta band comes to the center of the picture (Fig. 2-1-1). Check that color uneveness of both sides are approximately equal at this time. The openings of the purity magnet should be symmetric (Fig. 2-1-2).



a-a', b-b'
Show the geometric center line of CPT Screen (Fig. 2-1-1)



C-F MAG P#2773672
P#2775082 (For VM Models)

C-F MAGNET
P#2773671

The openings of the purity magnet should be symmetric:
on the right and left sides (P#2773671)
on the upper and lower sides (P#2773672)

Fig. 2-1-2

(7) Receive the single red signal. When the single red signal is not available, short-circuit between the base and emitter of Q845, and between the base and emitter of Q857 to set to single red.
(8) Pull back DY gradually and when the color uneveness of both sides of the picture disappear, mark the rear edge position of DY on the tape wound around CPT neck as shown in Fig. 2-2.
Pull back DY further and just before the color uneveness starts to appear on both sides of the picture, mark the rear edge position of DY on the tape by the same way.
At this time, pull back DY so that center axis of DY and CPT axis match.

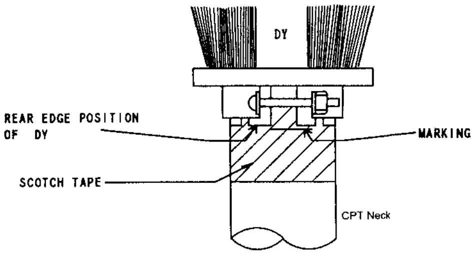


Fig. 2-2

(9) Move DY so that the rear edge position of DY comes to the center of the two marked lines and fasten DY as d=d (Fig. 2-3).
Further insert the rubber wedge between DY and CPT funner from the top and raise DY backwards.

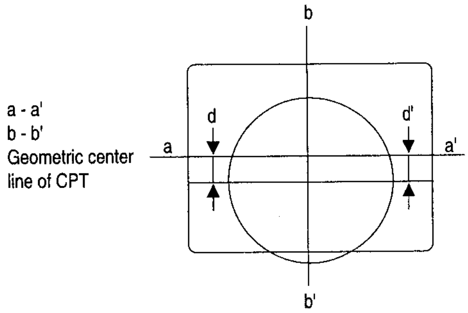


Fig. 2-3

(10) Set CPT axis direction magnetic field of the artificial magnetic field.
(The direction of the magnetic field should be from the CPT screen side to the neck side.)
(11) After degaussing it from outside, check the purity in each color of R, G and B visually.
Then, turn the screen to white and check the landing at the screen position shown in Fig. 2-4 with a microscope.

Criteria with microscope
There should be no miss landing at positions 2, 4, 8 and 10. (Refer to the miss landing criteria.) Green beam should be at the center of the green phosphor at position C.

(12) Turn over the direction of CPT axis direction magnetic field of the next artificial magnetic field and check it by the same way as item (11). The positions of miss landing criteria with a microscope should be 2, 4, 8 and 10. (Fig. 2-4).

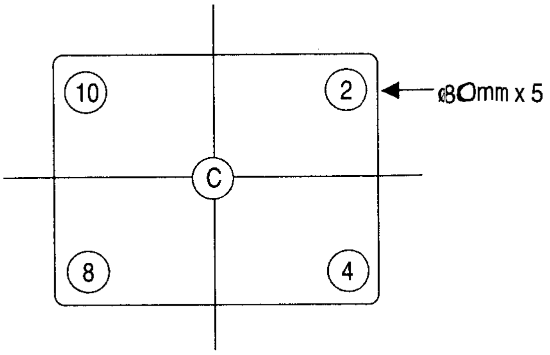


Fig. 2-4

Miss landing criteria

The following conditions are defined as miss landing. Each color beam shines on the phosphor of the applied color and there are phsophor parts which are not luminous (shaded parts in the figure) between the luminous parts and black matrix.

Or, each color beam shines on the phosphor of not applied color.

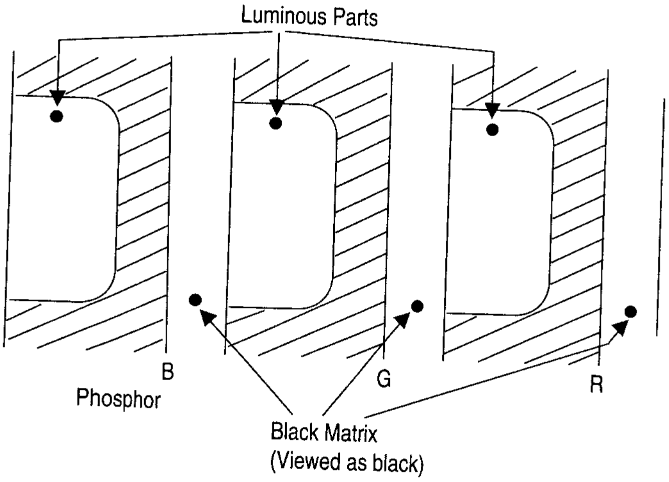

Luminous Parts
B
Phosphor
G
R
Black Matrix
(Viewed as black)

Fig. 2-6 Enlarged view of screen with microscope

(13) To improve the miss landing mentioned above, it's acceptable to stick the permanent magnet to CPT funnel (Fig. 2-7, Fig. 2-8).

Usage

Apply the silicone rubber KE-40 WRTV to the permanent magnet shown in the figure. Adhere it to CPT funnel and then fix it with permasel tape P212.

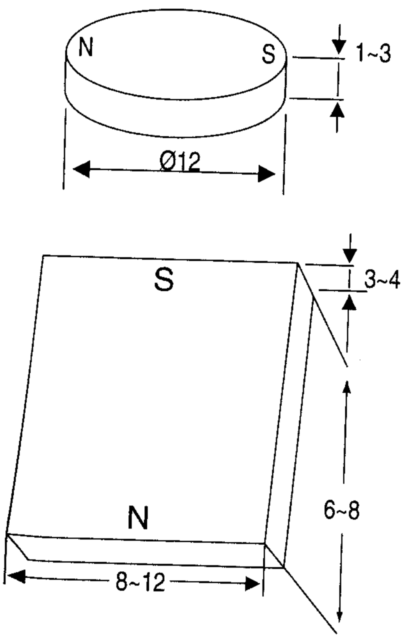

N
S
1~3
Ø12
S
3~4
N
6~8
8~12

Fig. 2-7

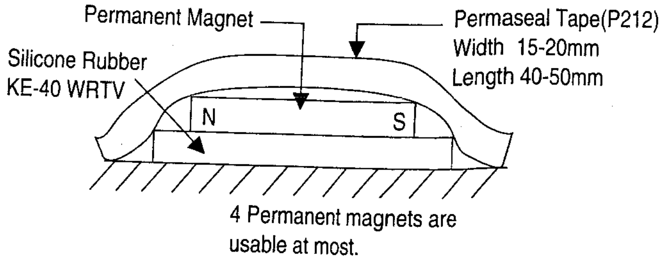

Permanent Magnet
Permaseal Tape(P212)
Width 15-20mm
Length 40-50mm
Silicone Rubber
KE-40 WRTV
N
S
4 Permanent magnets are
usable at most.

Fig. 2-8 CPT Funnel

(14) Final purity criteria should satisfy the miss landing criteria of items (8) and (9).

(15) When delivering the sets, set CPT axis direction magnetic field to 0 Gauss and degauss it from outside.

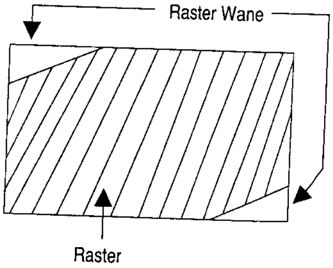
Table 2-1

Artificial magnetic field setting list classified by destination.

Group Destination	A	B
U.S.A.	+0.45 Gauss	+0.30 Gauss
Canada	+0.54 Gauss	+0.15 Gauss
Panama, Hawaii	+0.2 Gauss	+0.30 Gauss
Universal	+0.35 Gauss	+0.3 Gauss
Taiwan	+0.22 Gauss	+0.37 Gauss

Notes for pre-heat

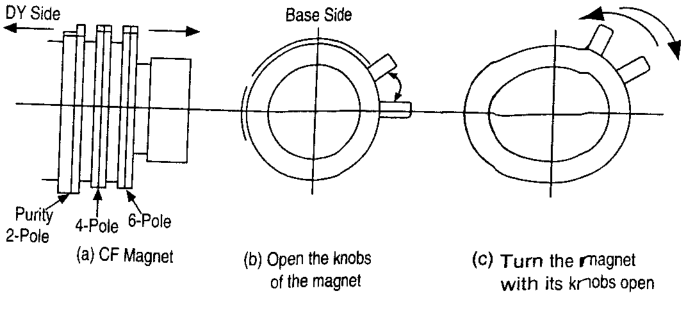
Before pre-heating, stick DY to CPT funnel and fix it so that the raster is perfect.


Raster Wane
Raster

If the raster is imperfect like the figure, CPT neck is in danger of cracking because the beam may hit it.

1-2-4 Static Convergence Adjustment (screen center part) Except ITC CPT

(1) Receive the cross-hatch signal and set BRIGHTNESS to the center, CONTRAST to minimum.


DY Side
Base Side
Purity
2-Pole
4-Pole
6-Pole

(a) CF Magnet (b) Open the knobs of the magnet (c) Turn the magnet with its knobs open

Fig. 2-19

(2) Open the knobs of 4-pole magnet (2 sheets) (Fig. 2-19 (b)) and match the blue-red vertical lines at the center of

the screen as shown in Fig. 2-20 (a).

(3) Turn the 4-pole magnet with its knobs open (Fig. 2-19 (c)) and match the blue/red horizontal lines as shown in Fig. 2-20.

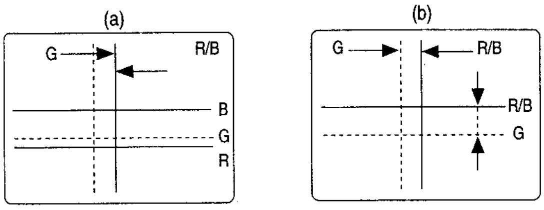


Fig. 2-20

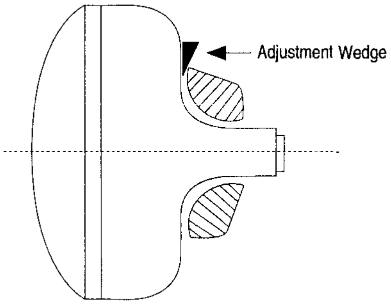


Fig. 2-21

1-2-5 Dynamic Convergence Adjustment

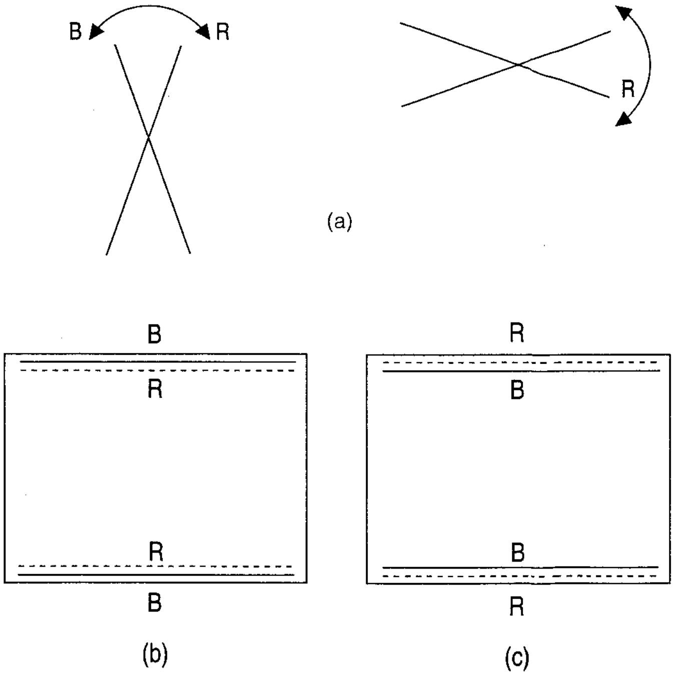
(Except ITC CPT type)

(1) Insert an adjustment wedge (temporary) between the top of DY opening and CPT funnel as shown in Fig. 2-21.
By inserting the wedge gradually, match the red and blue vertical lines at the top and bottom of the screen and also match the red and blue horizontal lines of both sides of the screen as shown in Fig. 2-22 (a).

(2) Adjust by swinging in the right/left directions of DY while observing 6 and 12 horizontal lines of the screen and match the red and blue horizontal lines.
As shown in Fig. 2-22 (b), when the blue is outside from the red on CPT screen, insert the DY fixing wedge between the right-side DY viewed from the rear of CPT and CPT funnel.

(3) As shown in Fig. 2-22 (c), when the blue is inside from the red on CPT screen, insert the wedge between the left-side DY and CPT funnel.

(4) Insert two DY fixing wedge with approximately 120' to the fixing wedge inserted in the item (2) or (3) and remove the adjustment wedge (temporary).
Use the DY fixing wedge after peeling off the tape.
Press and adhere it to the funnel.



(a)

(b)

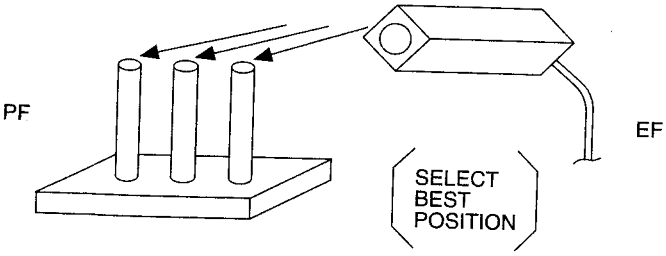
(c)

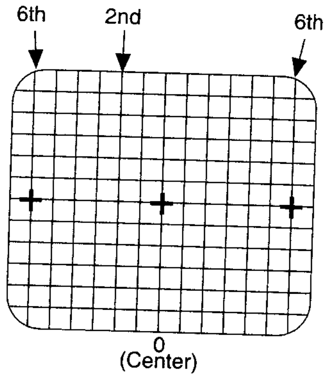
Fig. 2-22

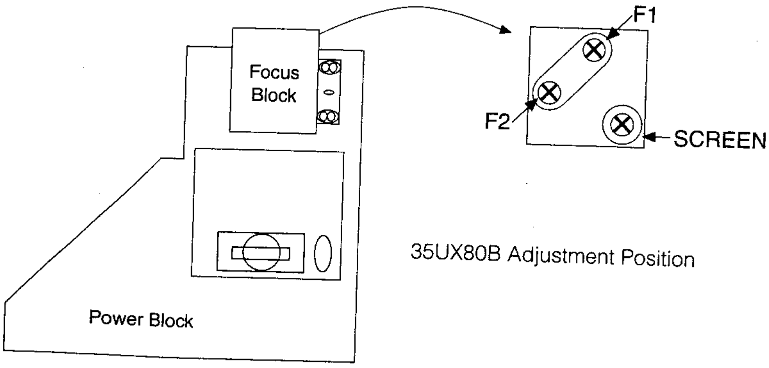
1-3 Focus Adjustment

NO.	MODEL	CPT	Condition	Focus VR Setting Position
1	35UX70B 35UX70BA	A89LED50X02 (V)	• Receive the cross-hatch signal • Contrast control: MAXIMUM • Sharpness control: CENTER • Brightness control: Where the back-ground is set	Turn the Focus VR gradually clockwise from the full counterclockwise. Then set it to the point where the focus of 2nd horizontal line from the screen center becomes best.
	35TX79K	A89KPP50X01 (V) A89LFL50X01 (V)		
2	35UX80B	A89AGF11X10	Same above	a) Turn the Focus VR (F1) gradually to adjust 6th horizontal line becomes best. b) Turn the Focus VR (F2) gradually to adjust center vertical line becomes best. c) Turn to Item (a)/(b) again and finish.
3	32UX8B	(HITACHI) A80LJF30X	Same above	Turn the Focus VR gradually clockwise from the full counterclockwise. Then set it to the point where the focus of center vertical line from the screen center becomes best.

CAUTION: Insert the connector PF/EF on CPT PWB to minimize width of horizontal line as follows (only for A89LED50X02, A89KPP50X01 and A89LFL50X01 35V CPT).







35UX80B Adjustment Position

1-4 Deflection Circuit Picture Adjustment

1-4-1 Horizontal Center Adjustmetn (R759)

Adjustment Preparation

(1) Receive circle pattern signal.
Set CONTRAST control to maximum and BRIGHTNESS control to center.

Adjustment Procedure

(1) Adjust H. Center VR (R759) so that the difference of the horizontal size markers at the right and left end are within 0.5.

1-4-2 Vertical Size Adjustment (R631)

Adjustment Preparation

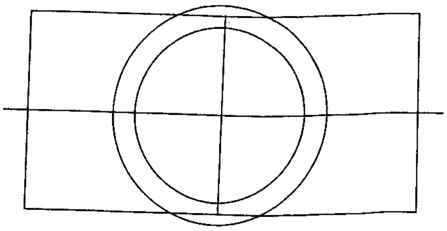
(1) The TV set should face North or South.

(2) Receive circle pattern signal.
Set CONTRAST control to maximum and BRIGHTNESS control to center.

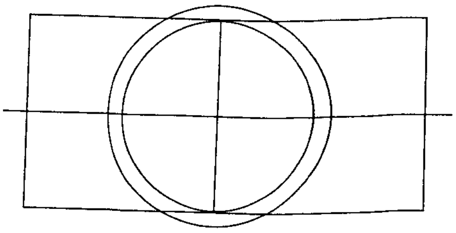
Adjustment Procedure

(1) Adjust V size VR (R631) so that the outer circle pattern is like figure.
Note: Perform this adjustment more than 5 minutes after applying the power ON.

i) When the picture center is below CPT center.
Adjust so that 1/2 of the width of outer circle comes to the screen.



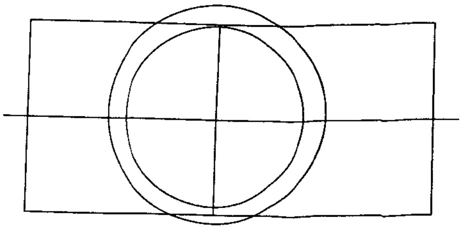
ii) Standard condition
Adjust so that the inner circle comes in contact with the top and bottom of the screen.



iii) When the picture center is above CPT center.

(1) When the picture center is 0~2 mm above CPT center, adjust so that the bottom of the inner circle comes in contact with the TOP of the screen.

(2) Except for the above, adjust so that 1/2 of the width of the outer circle comes to the BOTTOM of the screen.



1-4-3 Side Pin Distortion Adjustment (R7HF)

Preparation for Adjustment

(1) Receive cross-hatch signal. Set CONTRAST control to maximum and BRIGHTNESS control to the point where the background is set.

Adjustment Procedure

(1) Adjust R7HF so that the line of the right and left is
straight (Specification: Dt. $D_R \leq 5$mm 32V)
straight (Specification: Dt. $D_R \leq 7$mm 35V)

1-4-4 Horizontal Size Adjustment (R7H6)

Preparation for Adjustment

(1) Receive circle pattern signal.

(2) Set CONTRAST control to maximum and BRIGHTNESS control to center.

Adjustment Procedure

(1) Adjust R7H6 so that the average reading of right and left is 1.5. The reading of each side should be at least 1.

2. SIGNAL CIRCUIT ADJUSTMENT

2-1 White Balance Adjustment

Adjustment Preparation

(1) Apply heat-run 20 min. or more after the power is turned on.
(2) Check that the purity adjustment has been completed.
(3) Set the vertical incident illumination on the CPT surface to 20 lux or less.
(4) Receive white raster signal and set the color temperature control (white control) to STD.
(5) Set drive adjustment VRs (R860, R864) to the mechanical center.
(6) Turn low brightness white balance adjusting VRs (R866, R868, R870) fully counterclockwise.
(7) Turn the screen adjusting VR fully counterclockwise.
(8) The picture is switched at lateral line by the switch S851.

Adjustment Procedure

(1) Turn the screen adjusting VR clockwise and set to the position where the bright colored line starts appearing on the CPT screen.
Do not turn thereafter the low brightness white balance VR (this is called VR-A) corresponding to the color first appearing.
When a bright colored line does not appear, set the screen VR fully clockwise.
(2) Turn fully clockwise the low brightness white balance VRs except VR-A and adjust so that red, green and blue bright colored lines appear on the screen equally.
(3) Return the switch S851 back.
(4) Set CONTRAST and BRIGHTNESS controls to minimum and turn sub-black level VR (R325) to set at the position where the white raster is just slightly seen.
(5) Set the white balance meter at the center of the screen.
(6) Adjust CONTRAST control so that the indication of the brightness meter is 80% of the full scale.
Then, turn the drive adjusting VRs (R860, R864) and adjust the high-brightness white balance.
(7) Adjust CONTRAST control to minimum and check that the low-brightness white balance is obtained by directly observing the CPT surface, without using a mirror.
(8) When the low brightness white balance is not obtained, adjust other low brightness white balance VRs except VR-A and return to item (6).

White balance color temperature setting: 7,200° K.

(9) Set white control (color temperature control) to cool, and check that color temperature is approximately 9,300°K.

2-2 Sub Brightness Adjustment (R325)

Adjustment Preparation

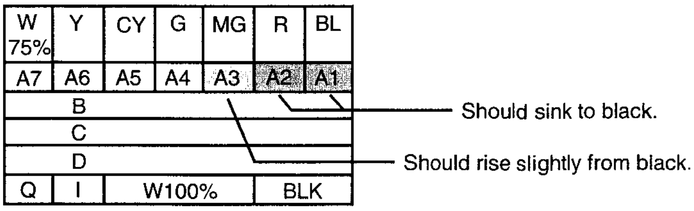
(1) Start adjustment 20 minutes or more after the power is turned on. Receive the color bar signal.
(2) Set the CONTRAST and color controls to minimum.
(3) Set the BRIGHTNESS to -6 (-3 position on the display).
(4) The vertical incident illumination on the screen should be 20 lux or less.
Adjustment specification: within ±0.3 step

Adjustment Procedure

(1) Adjust so that the points A1 and A2 sink to black and A3 slightly above it rises using the sub brightness adjustment VR (R325). (Visually adjust)

Remarks

* Directly observe the CPT screen by eye without using a mirror.



Adjustment specification: within ±0.3 step

2-3 Sub Picture Adjustment

2-3-1 Sub Picture Black Level Check

Preparation for Adjustment

(1) Start adjustment about 20 minutes after the power switch is turned ON.
(2) After displaying the white signal with main picture, display the sub picture and receive the color bar signal with it.

(Condition : CONTRAST-MAXIMUM
OTHERS-CENTER)

Adjustment Procedure

(1) Check the sub picture setting the part of A1 of the color bar pattern to black.
(Check specification ±0.5 steps.)

2-3-2 Sub Picture White Balance Adjustment

BLUE - Adjustment RP11 ⎤
GREEN - Adjustment RP10 ⎥ On the Signal P.W.B.
RED - Adjustment RP09 ⎦

Preparation for Adjustment

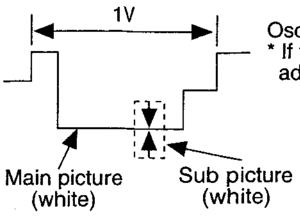
(1) Turn off the sub picture by pressing "P in P" key or remote controller. (Keeping the white signal with main picture.)
(2) Display and match the sub picture details with the main picture details by pressing "FREEZE" key of remote controller.
(3) Condition should be set as follows.

(CONTRAST — MAXIMUM
BRIGHTNESS — MINIMUM
OTHERS — CENTER)

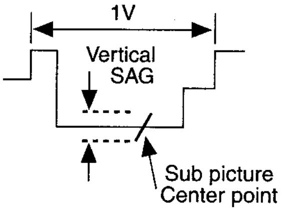
(4) White signal specification amplitude 1.7Vpp (Sync. 0.6Vpp).

Adjustment Procedure

(1) Observe Q857 collector on the CPT P.W.B. and turn the BLUE adjustment VR RP11 and adjust so that the amplitude of the sub picture is the same as that of the main picture.
(2) Similarly, observe Q854 collector on the CPT P.W.B. and turn the GREEN adjustment VR RP10 and adjust so that the amplitude of the sub picture is the same as that of the main picture.
(3) Similarly, observe Q851 collector on the CPT P.W.B. and turn the RED adjustment VR RP09 and adjust so that the amplitude of the sub picture is the same as that of the main picture.
(4) Check that the white balance of the sub picture is the same as that of the main picture.
If it does not, return to setp (1) Table 3.
☆ Adjustment specification: ±1V
☆ Waveform of Q851/Q854/Q857 (R/G/B)=cathode
(sub picture level compared with main picture level.)


1V
Main picture (white)
Sub picture (white)

Oscilloscope range : 10V/0.2msec
* If the sub picture sag to vertical direction, adjust the sub picture center point.

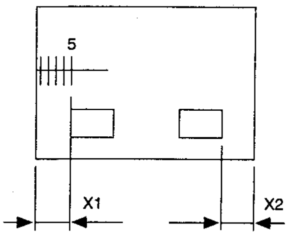

1V
Vertical SAG
Sub picture Center point

☆ Perform this adjustment after the white balance and sub-brightness adjustments of the main picture are completed.
☆ White balance 7500°K+OMPCD
(Color coordinates: x=0.301, y=0.310)
☆ Refer to the sub brightness adjustment for details of the gray scale of color bar signal.

2-3-3 Sub Picture Position Adjustment Check Procedure

(1) Display the circle pattern with main picture.
(2) Turn on the sub picture and adjust the position X1=X2 by turning RP34.

(Specification: Left edge of sub picture compared with circle pattern scale "4.5" ±0.5=x1.)
Only for 35UX80B X1 = 5.5±0.5
X2 = 4.0±0.5



2-4 Dolby Circuit Operation Check

2-4-1 Dolby Prologic Circuit Operation Check (only for 35UX80B)

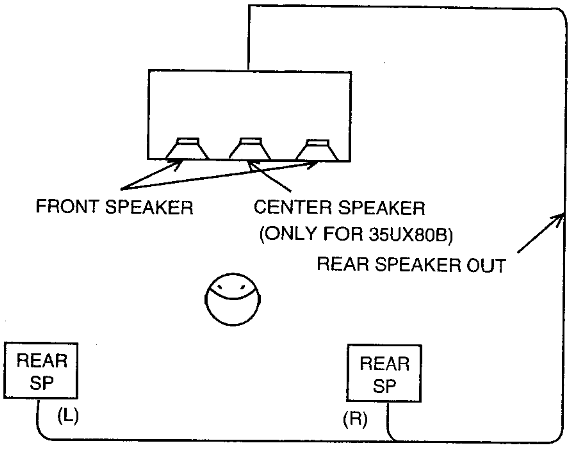
(1) Set the SOUND modes as follows.

BASS : CENTER
TREBLE : CENTER
BALANCE : CENTER
INT. SPEAKER : ON

DYNAMIC BASS : OFF
LOUDNESS : OFF
SURROUND : PRO. LOGIC

(2) Set so that each level of the following outputs can be monitored from their waveforms.

FRONT SPEAKER (L output
R output
REAR SPEAKER (L output
R output
CENTER SPEAKER OUTPUT


FRONT SPEAKER
CENTER SPEAKER
(ONLY FOR 35UX80B)
REAR SPEAKER OUT
REAR SP
(L)
REAR SP
(R)

Preparation for Adjustment

(3) Input the L and R audio signals from the jig shown below.

Adjustment Procedure

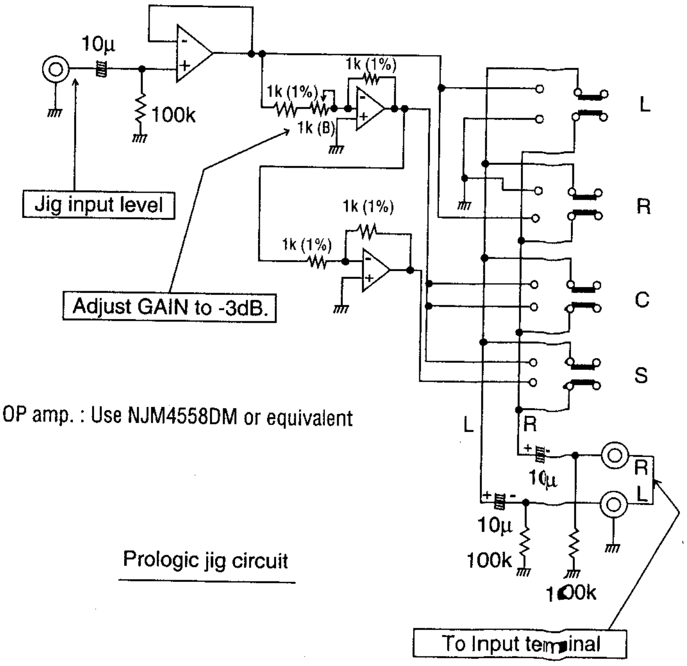
(1) With MODE: PRO LOGIC
Press L, R, C and S switches of the jig.

Table 1

Monitor level / Jig switch	CENTER SP	FRONT SP L	FRONT SP R	REAR SP L	REAR SP R
L	—	○	—	—	—
R	—	—	○	—	—
C	○	—	—	—	—
S	—	—	—	○	○

Check that the output appears as shown in Table 1.

(2) With Test Tone mode, check that the test noise is generated in sequence for L, R, C and S (each for about 2 seconds).


10μ
100k
1k (1%)
1k (1%)
1k (B)
1k (1%)
1k (1%)
Jig input level
Adjust GAIN to -3dB.
L
R
C
S
L
R
10μ
10μ
R
L
100k
100k
To Input terminal

OP amp. : Use NJM4558DM or equivalent

Prologic jig circuit

Adjustment Procedure

(3) With MODE: 3ch LOGIC
Press the L, R, C and S switches of the jig.
Check that the output appears as shown in Table below.

Monitor level / Jig switch	CENTER SP	FRONT SP L	FRONT SP R	REAR SP L	REAR SP R
L	—	○	—	—	—
R	—	—	○	—	—
C	○	—	—	—	—
S	—	—	—	—	—

(4) With Test Tone mode, check that the test noise is generated in sequence for L, C and R (each for about 2 seconds).

2-5 Surround Operation Check

Preparation for Adjustment

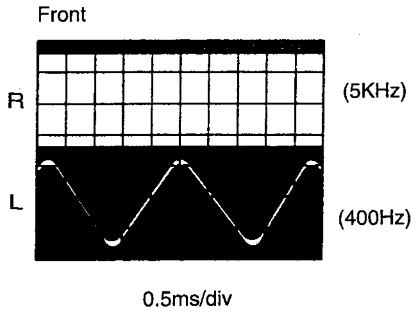
Input the following audio signals to the audio input of the VIDEO INPUT terminals.

When checking surround:
L CH: 400Hz sine wave 475mVrms
R CH: 5kHz sine wave 475mVrms
Set the INT. SPEAKER : ON
Set the volume controls of FRONT, CENTER and REAR to center.
Set the BASS, TREBLE and BALANCE to center.

Note: Front waveform: Front speaker output of the set.
Rear waveform: Rear speaker output of the set.
Center waveform: Center speaker output of the set.

2-5-1 Surround Off Check

(1) Set to SURROUND: OFF and check that the waveform shown below is obtained.

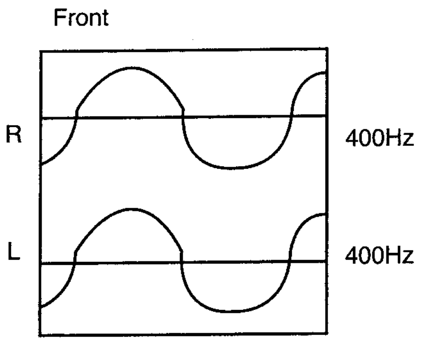


Note: REAR and CENTER output is no signal.

2-5-2 Surround Off/Monaural Check

Preparation for Adjustment

Check that the following waveform is obtained. The amplitudes of 2 channels are equal.

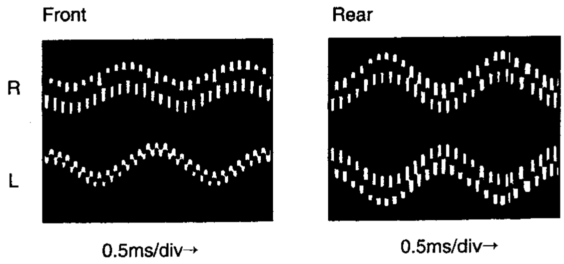


Note: Monaural check can be omitted.
REAR and CENTER output is no signal.

2-5-3 Matrix Surround Check

Preparation for Adjustment

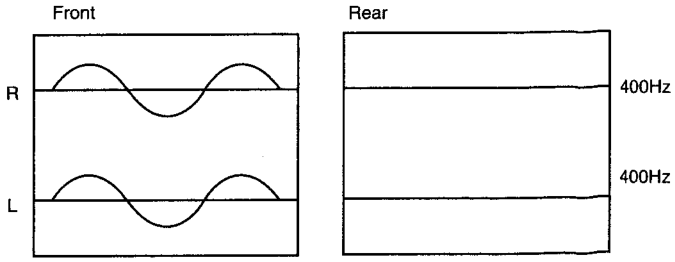
(1) Set to SURROUND : MATRIX
Check that the following waveforms are obtained.
Front : Check that the phases of R and L are different and 400Hz is superimposed on 5kHz.
The amplitudes of R and L are different.
Rear : Check that the phases of R and L are oppposite and 400Hz is superimposed on 5kHz.
Center : No signal.



2-5-4 Matrix Surround/Monaural Check

Preparation for Adjustment

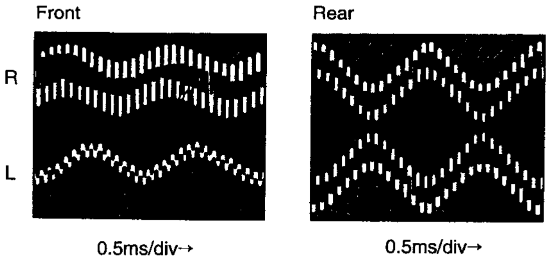
Check that the following waveforms are obtained.
Front : R and L waveforms are almost equal.
Rear : R and L waveforms are almost zero.
Center : No signal.



2-5-5 Hall Surround Check

Preparation for Adjustment

(1) Set to SURROUND : HALL.
Check that the following waveforms are obtained.
Front : Check that the phases of R and L signals are different and 400Hz is superimposed 5kHz.
Rear : Check that the phases of R and L are opposite and 400Hz is superimposed on 5kHz.
The amplitudes of R and L are equal.
Center : No signal.



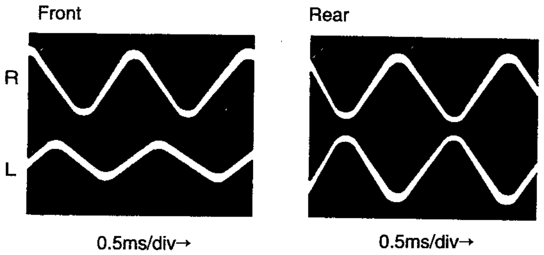
Note: Amplitude levels of front R and L are not even.

2-5-6 Hall Surround/Monaural Check

Preparation for Adjustment

Check that the following waveforms are obtained.

Front : The phases of R and L are different.
The amplitudes of R and L are different.
Rear : The phases of R and L are opposite.
Center : No signal.



Note: The monaural check can be omitted.
Amplitude levels of front R and L are not equal.

2-5-7 Dolby Surround Check

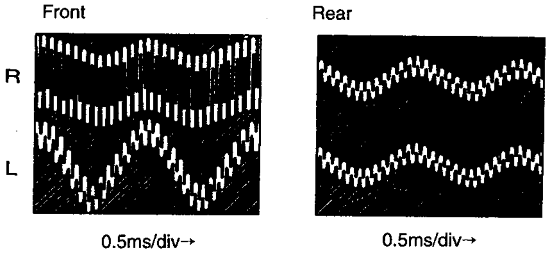
2-5-7-1 For 35UX80B Only

Preparation for Adjustment

(1) Set to SURROUND : PROLOGIC
MODE : PROLOGIC

Check that the following waveforms are obtained.

Front : 400Hz is superimposed on 5kHz.
Rear : R and L are the same signal and 400Hz is superimposed on 5kHz.



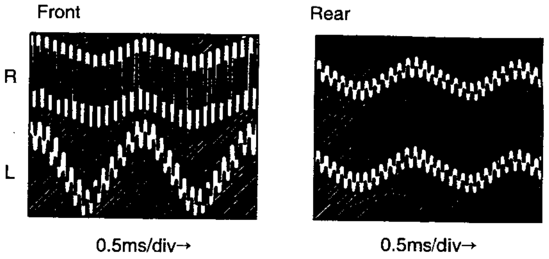
2-5-7-2 Except for 35UX80B

Preparation for Adjustment

(1) Set to SURROUND : DOLBY

Check that the following waveforms are obtained.

Front : R is 5kHz sine wave. L is 400Hz sine wave.
Rear : R and L are the same signal and 400Hz is superimposed on 5kHz.



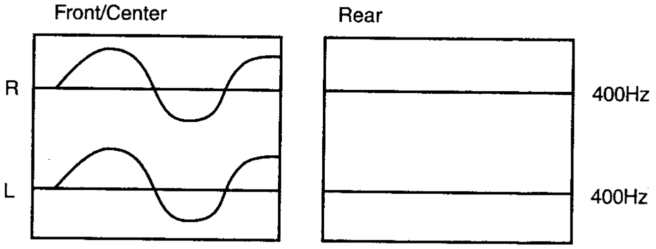
2-5-8 Dolby Surround/Monaural Check

Preparation for Adjustment

Check that the following waveforms are obtained.

Front : R and L are the same signal.
Center : Same signal with R and L.
Rear : Almost no output from both R and L.

Note: Front side check can be omitted.



2-6 Dynamic Bass Circuit Operation Check

Preparation for Adjustment

(1) Input 90Hz audio signal with 435mVrms to L/MONO.
(2) Set the VOLUME to center.
(3) Set to SURROUND OFF.

Adjustment Procedure

(1) Switch the DYNAMIC BASS of the SOUND SETTING from OFF to ON and check that the output level of the front speaker changes by +6 at 70Hz.

2-7 AGC Adjustment (RF15)

Adjustment Preparation

(1) After all the adjustments are finished, heat-run 5 minutes or more in signal receiving condition.
(2) Receive circle pattern signal.
(3) Set CONTRAST to maximum and BRIGHTNESS to On-Screen Display center.
(4) Antenna input power: -53dBm.
(5) Connect DC voltmeter of internal resistance 1MΩ or more to TP15.

Adjustment Procedure

(1) Adjust AGC adjustment VR (RF15) until the indication of DC voltmeter does not change any more at the maximum point. The reading of DC voltmeter is named V1. Adjust AGC adjustment VR (RF15) so that the indication of DC voltmeter is (V1-(0.5±0.2))V.

3. CHECK IN COMBINATION WITH EXTERNAL EQUIPMENT

3-1 Check in Combination with External Equipment

Preparation for Check

(1) Input video signals to "Video 1", "Video 2" and "Video 3" input terminals.

Signal condition	100% white signal
	1±0.2Vp-p
	75Ω termination

(2) Input audio signals to Audio 1", "Audio 2" and "Audio 3" input terminals.
Signal condition 435±20mVrms
VCR or Tuner or equivalent.
(3) Connect the monitor TV to output terminal.
(4) Input Y-C separate signals to "S-VIDEO" input terminal.
(5) Connect the "Audio Input Terminals" of the monitor TV to "Audio to Hi-Fi" output terminals, and "Transmitter Out" output terminals.

Checking Procedure

(1) Each time the input selection of the remote control transmitter is pressed, input signal should be received alternately.
(2) Check that the picture and sound are normal when the external signals are received.
(3) Check that the "Transmitter Out" signal are switched when the "WIRELESS MODE" is selected.
Remark:
  (1) The 100% white of TV signal should be almost the same brightness as the 1Vp-p (75Ω termination) external video input signal.
  (2) For the audio signal 100% modulation (25kHz div) of the TV signal should be almost the same level as the 435mVrms external audio signal.

Checking Procedure

(4) Check that the reception of the monitor TV connected to output terminal is also switched when Item (1) is checked.
Remark:
  (1) The signals from the output terminals are the same as those of the picture and sound of the TV set.

Checking Procedure

(5) When the phono plug connected to Audio R terminal is pulled out with the external signal input, the sound from both left and right speakers should be normal (L monaural check).
When the phono plug is connected only to R terminal, check that the sound is output only from the right speaker.
(The sound should not be output from the left speaker.)
Check above in "VIDEO 2" and "VIDEO 3" modes.
Remark:
  (1) The audio input terminals are switched over between stereo and monaural by switching the phono jacks.
    - When the phono plugs are connected to both L and R: Stereo input mode.
    - When the phono plug is connected only to L: Monaural input mode.

Checking Procedure

(6) When the Video (S-In) is selected, the picture and sound from the Y/C separated signal should be received.
However, the output signal is composite signal of S-Video input signal.
(7) The signal controlled from the TV side (Bass, Treble, Balance, Volume, Mute,,Surround) should be output from Audio to Hi-Fi output terminal when Item (1) is checked.
(8) The signal controlled from the TV side (P in P VOLUME when the "WIRELESS MODE" is P in P, BASS, TREBLE, BALANCE, VOLUME, SURROUND, MUTE when the output "WIRELESS MODE" is main or rear) should be output from transmitter terminals.

4. POLARITY CHECK

This check is performed according to UL standard requirement. There should be electricity between AC power cord and chassis earth.

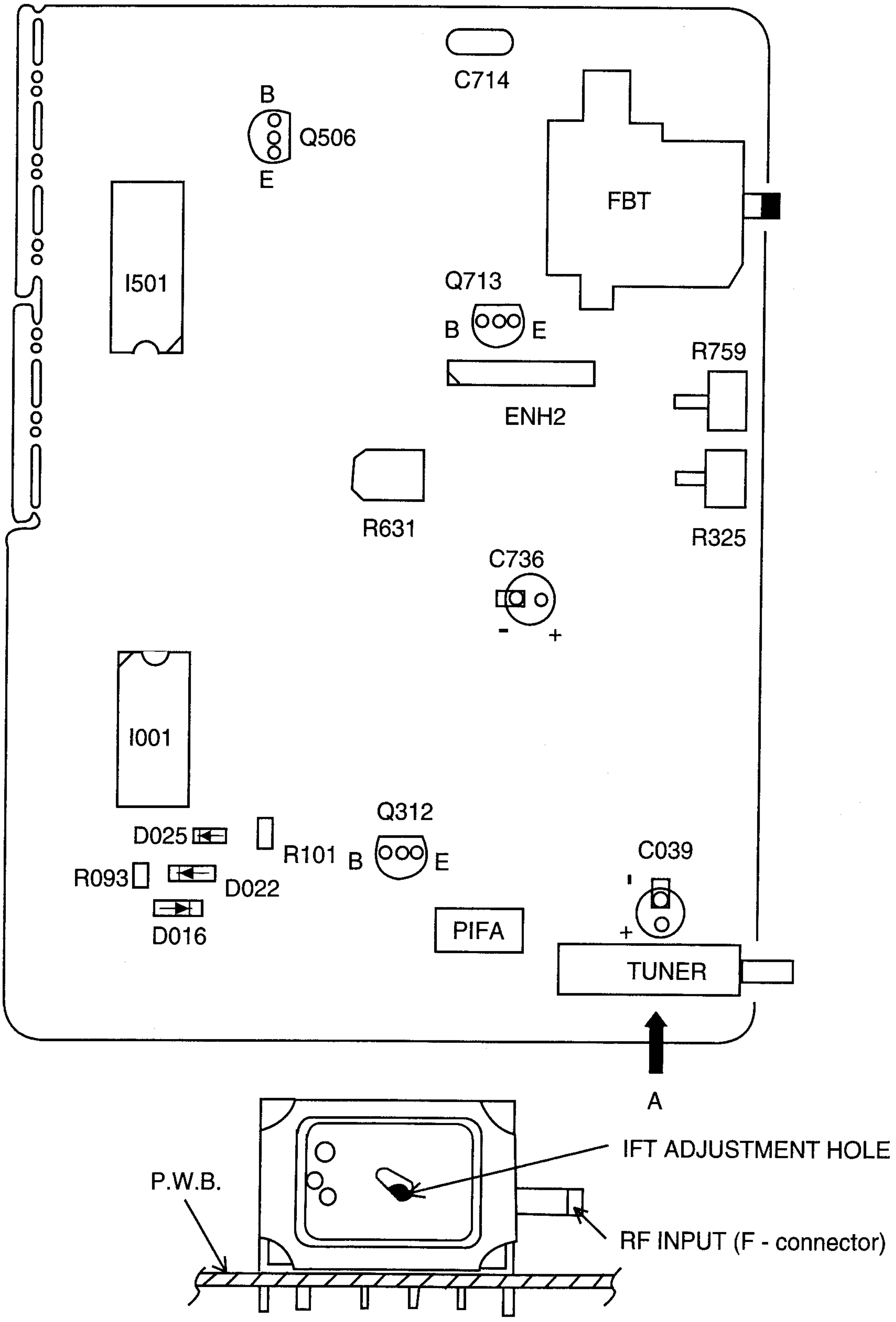
VI. INITIAL SETTING

NO.	NAME	SPEC	35UX80B	35TX79K	32UX8B/35UX70BA	32UX8B	
1	Reception Channel	03 CH	○	○	○	○	
2	ANTENNA	VHF/UHF	○	—	—	—	
3	AVX	TV	○	○	○	○	
4	VOLUME	20 STEP	○	○	○	○	
5	P IN P	OFF	○	○	○	○	
6	P in P POSITION	LOWER RIGHT (P in P ON)	○	○	○	○	
7	CCD	OFF	○	○	○	○	
8	AIR/CABLE	AIR	○	○	○	○	
9	CHANNEL MEMORY	02~13 CH	○	○	○	○	
10	CHANNEL CAPTION	No Registered for all Channels	○	○	○	○	
11	CHILD LOCK	OFF for all Channels	○	○	○	○	
12	VOLUME CORRECTION	OFF for all Channels	○	○	○	○	
13	CLOCK SET	OFF	○	○	○	○	
14	CONTRAST	MAXIMUM	○	○	○	○	
15	TINT	1/2	○	○	○	○	
16	COLOR	1/2	○	○	○	○	
17	BRIGHTNESS	1/2	○	○	○	○	
18	SHARPNESS	1/2	○	○	○	○	
19	ULTRA VIEW AI	OFF	○	○	○	○	
20	BALANCE	1/2	○	○	○	○	
21	BASS	1/2	○	○	○	○	
22	TREBLE	1/2	○	○	○	○	
23	MTS MODE	STEREO	○	○	○	○	
24	DYNAMIC BASS	OFF	○	○	○	○	
25	INT. SPEAKERS	ON	○	○	○	○	
26	REAR VOLUME	20 STEP	○	○	○	○	
27	CENTER VOLUME	20 STEP	○	—	—	—	
28	SURROUND	OFF	○	○	○	○	
29	PRO LOGIC MODE	PRO LOGIC	○	—	—	—	
30	FREEZE	OFF	○	○	○	○	
31	CCD MODE	CAPTION	○	○	○	○	
32	CCD CHANNEL	CH1	○	○	○	○	

VI. INITIAL SETTING

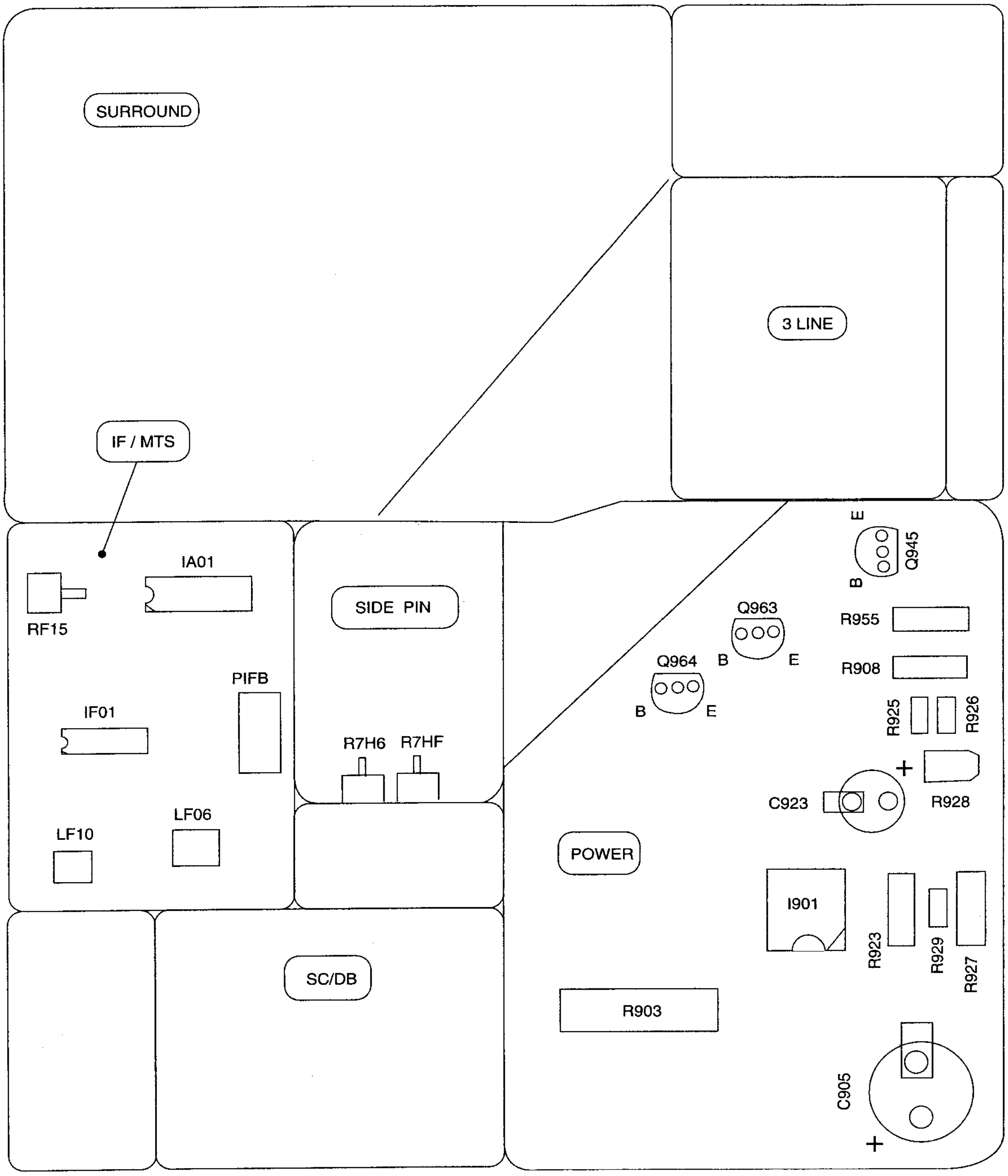
NO.	NAME	SPEC	35UX80B	35TX79K	32UX8B/35UX70BA	32UX8B	
33	MENU LANGUAGE	ENGLISH	○	○	○	○	
34	ON/OFF TIMER	No Registered	○	○	○	○	
35	MESSAGE	No Registered	○	○	○	○	
36	CALENDAR	95 JAN.	○	○	○	○	
37	AUTOCOLOR	ON	○	○	○	○	
38	NOTCH FILTER	OFF	—	○	○	—	
39	NOISE REDUCTION	OFF	○	○	○	○	
40	WHITE CONTROL	COOL	○	○	○	○	
41	LOUDNESS	OFF	○	○	○	○	
42	WIRELESS MODE	AOM	○	○	○	○	
43	SUB PICTURE VOLUME	10 STEP	○	○	○	○	
44	VOLUME (FRONT)—MATRIX	20 STEP	○	○	○	○	
45	VOLUME (FRONT)—HALL	20 STEP	○	○	○	○	
46	VOLUME (FRONT)—DOLBY	20 STEP	○	○	○	○	
47	VOLUME (REAR)—MATRIX	20 STEP	○	○	○	○	
48	VOLUME (REAR)—HALL	20 STEP	○	○	○	○	
49	VOLUME (REAR)—DOLBY	20 STEP	○	○	○	○	
50	TEST TONE (FRONT L)	32 STEP	○	○	○	○	
51	TEST TONE (CENTER)	32 STEP	○	○	○	○	
52	TEST TONE (FRONT R)	32 STEP	○	○	○	○	
53	TEST TONE (REAR)	32 STEP	○	○	○	○	
54	INPUT BALANCE	CENTER	○	○	○	○	
55	FRONT VOLUME	20 STEP	○	○	○	○	

V. Adjustment position list (MAIN)

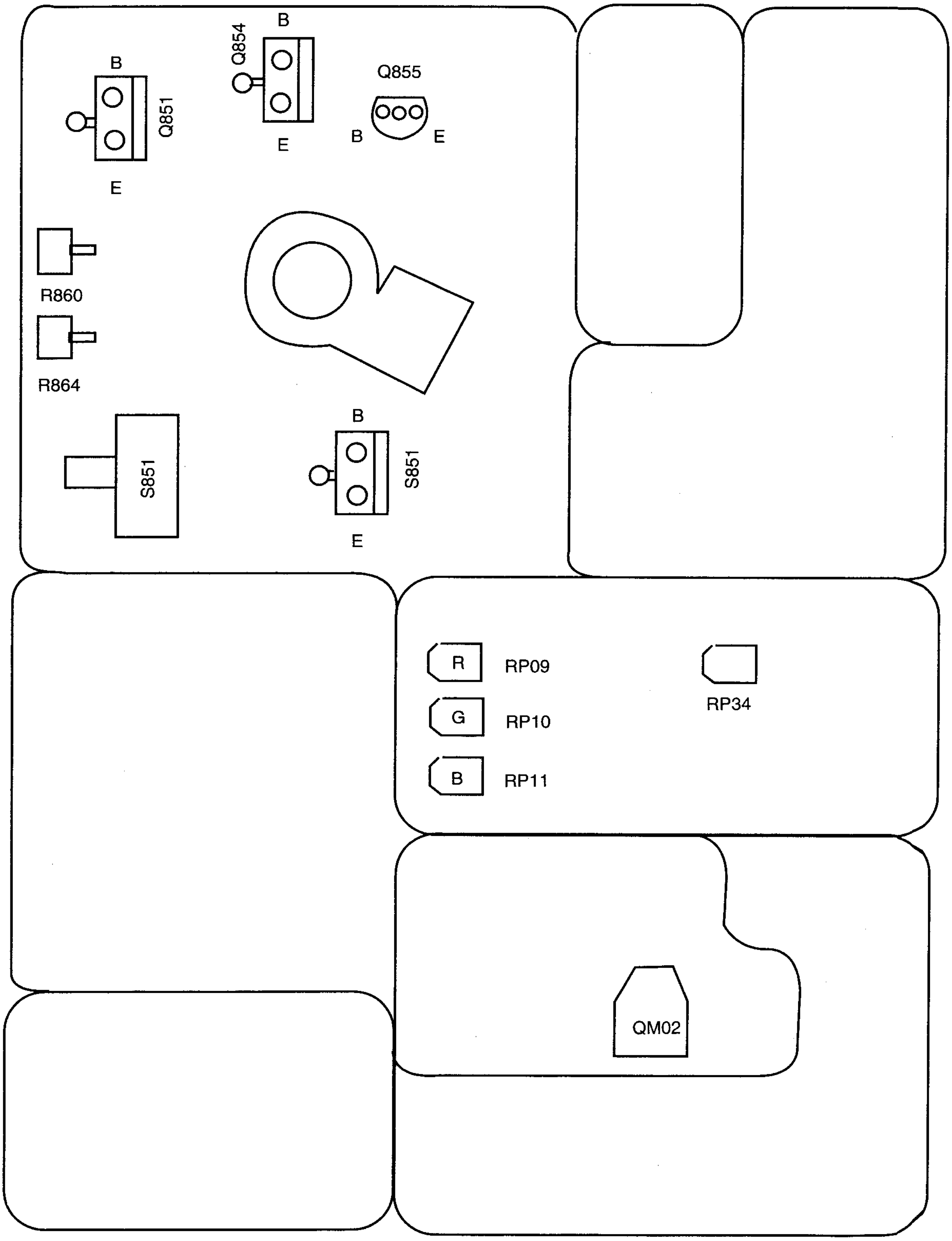

C714
B
Q506
E
FBT
I501
Q713
B
E
R759
ENH2
R631
R325
C736
-
+
I001
Q312
D025
R101
B
E
C039
R093
D022
D016
PIFA
+
TUNER
A
IFT ADJUSTMENT HOLE
P.W.B.
RF INPUT (F - connector)

A - "VIEW"

V. Adjustment position list (SURROUND)


SURROUND
3 LINE
IF / MTS
IA01
RF15
PIFB
IF01
LF10
LF06
SIDE PIN
R7H6
R7HF
SC/DB
POWER
E
B
Q945
Q963
R955
Q964
B
E
R908
B
E
R925
R926
+
C923
R928
I901
R923
R929
R927
R903
C905
+

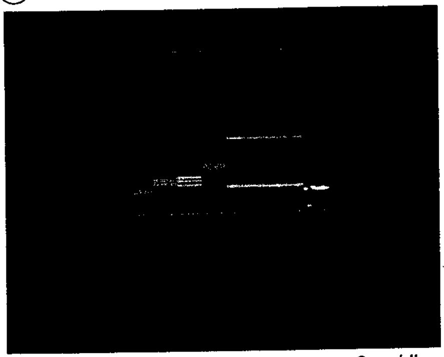
V. Adjustment position list (CPT)


B
Q854
B
Q851
Q855
E
B
E
E
R860
R864
B
S851
S851
E
R
RP09
G
RP10
B
RP11
RP34
QM02

WAVEFORMS AT EACH SECTIONS

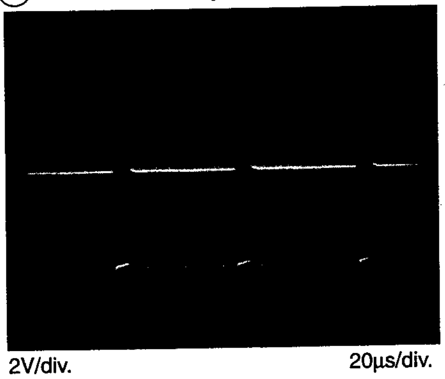
Numbers inside ○ correspond to locations shown in the circuit diagram

① I001 Pin 26 CCD-In



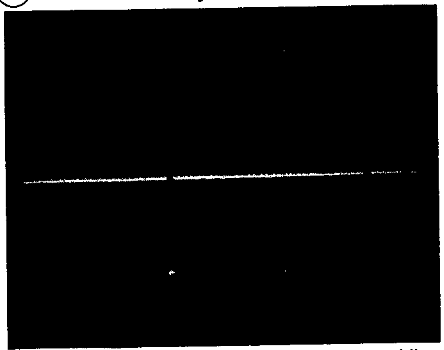
1V/div. 2ms/div.

② I001 Pin 39 H-Sync



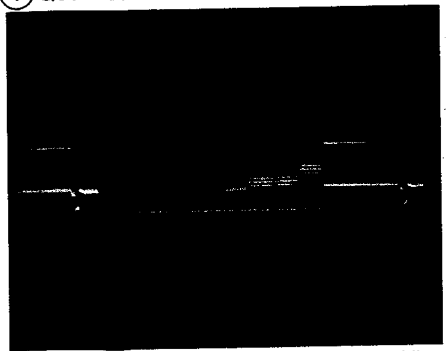
2V/div. 20μs/div.

③ I001 Pin 55 V-Sync



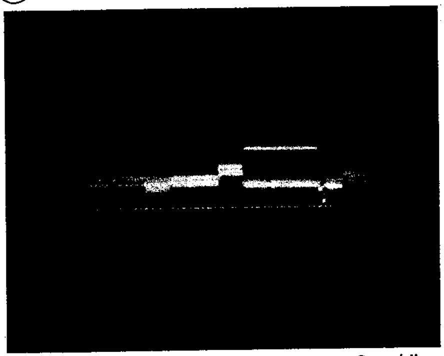
2V/div. 2ms/div.

④ Q304 Base



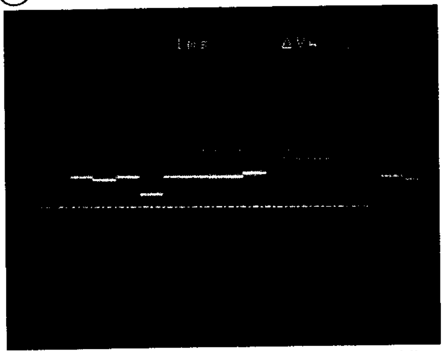
1V/div. 2ms/div.

⑤ I501 Pin 55 Y-In



0.5V/div. 2ms/div.

⑥ I501 Pin 10 R-Y



2V/div. 1ms/div.

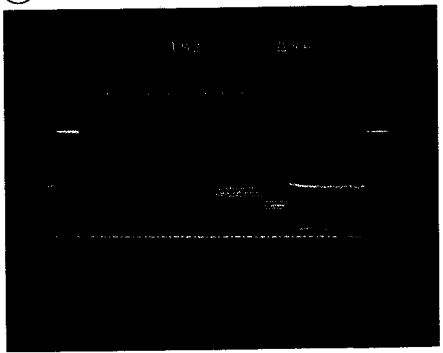
⑦ I501 Pin 11 G-Y

0.5V/div. 2ms/div.

⑧ I501 Pin 12 B-Y

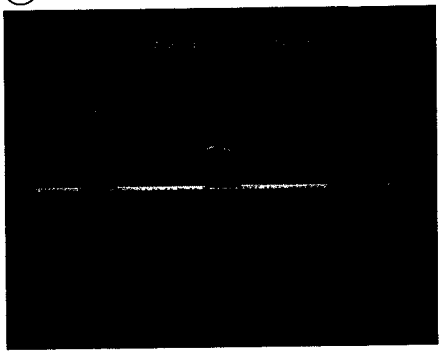
2V/div. 1 ms/div.

⑨ I501 Pin 13 - Y



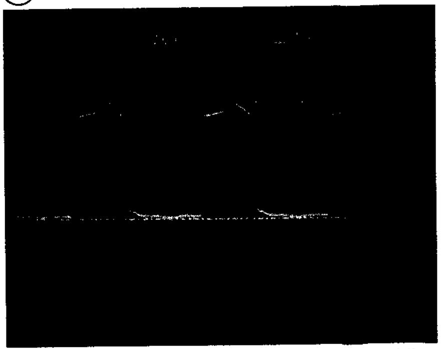
2V/div. 2ms/div.

⑩ I501 Pin 25 FBP



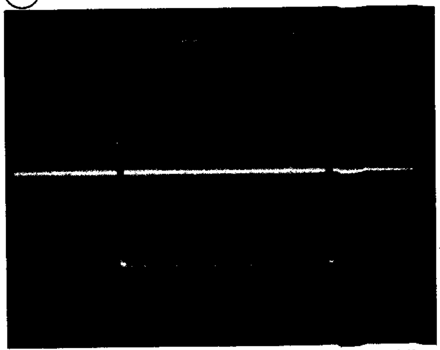
5V/div. 20μs/div.

⑪ I501 Pin 26 H Out



0.5V/div. 20μs/div.

⑫ I501 Pin 32 V Out

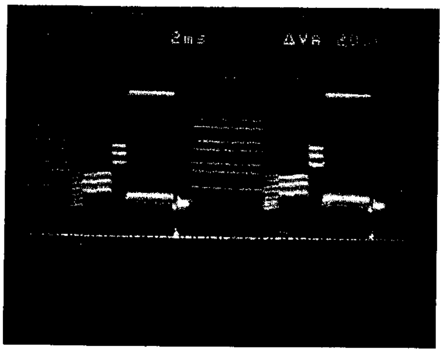


2V/div. 2 ms/div.

WAVEFORMS AT EACH SECTIONS

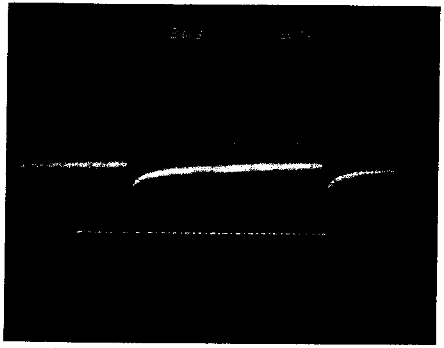
Numbers inside ○ correspond to locations shown in the circuit diagram

⑬ I501 Pin 34 H-Sync In



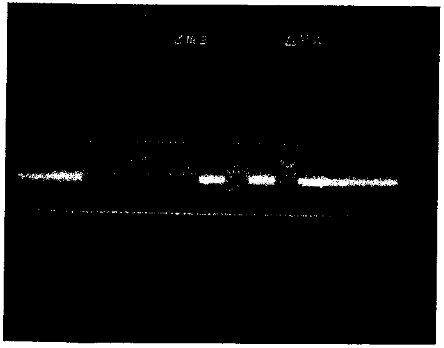
0.5V/div. 2ms/div.

⑭ I501 Pin 35 V-Sync In



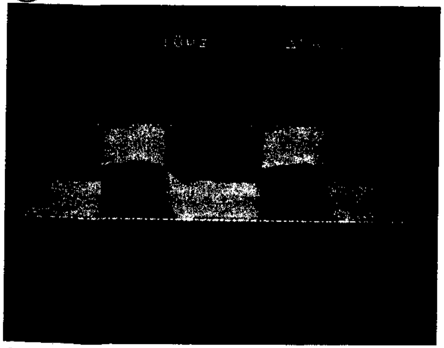
0.2V/div. 2ms/div.

⑮ I501 Pin 46 C-In



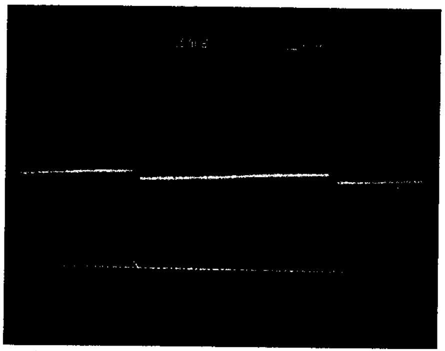
0.1V/div. 2ms/div.

⑯ Q710 Base Hor. Drive



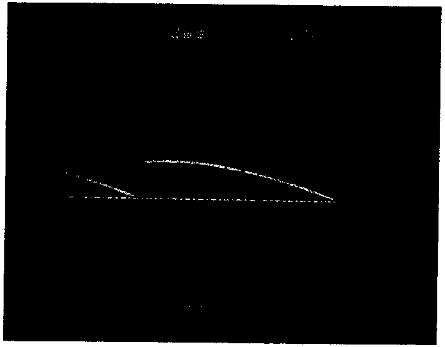
0.5V/div. 10µs/div.

⑰ I620 Pin 2 Ver. Drive



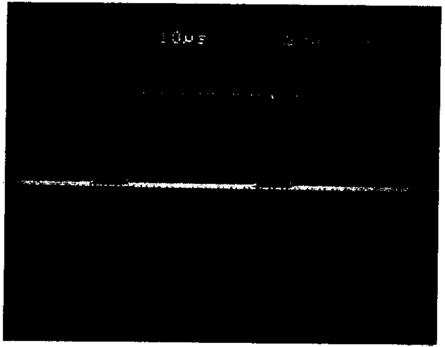
2V/div. 2ms/div.

⑱ I620 Pin 12 Ver. Out



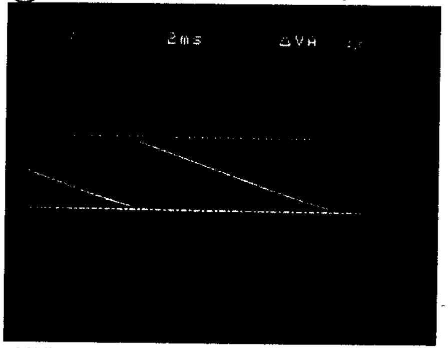
20V/div. 2ms/div.

⑲ Q711 Collector (H.O.T.)



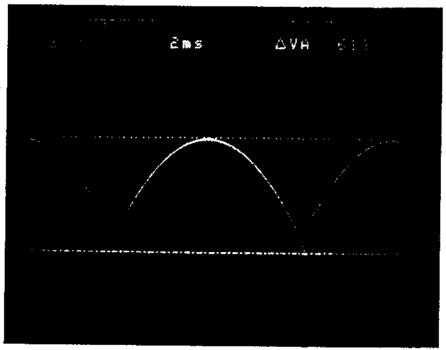
5V/div. 10µs/div.

⑳ P65B Pin 1 Side Pin Amp. +



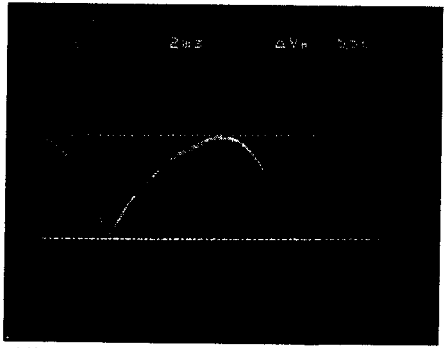
1V/div. 2ms/div.

㉑ P65B Pin 2 Side Pin Amp. -



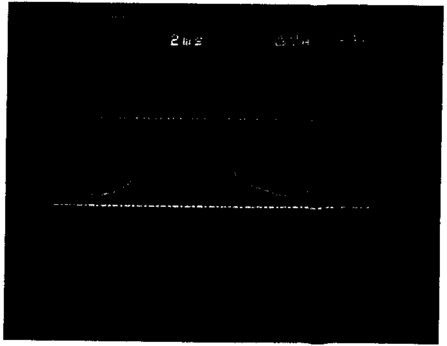
2V/div. 2ms/div.

㉒ Q6H0 Emitter Side Pin Drive



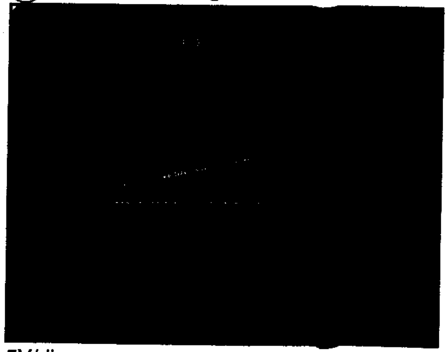
2V/div. 2ms/div.

㉓ Q714 Collector Side Pin Out



10V/div. 2ms/div.

㉔ I901 Pin 1 reg. Out

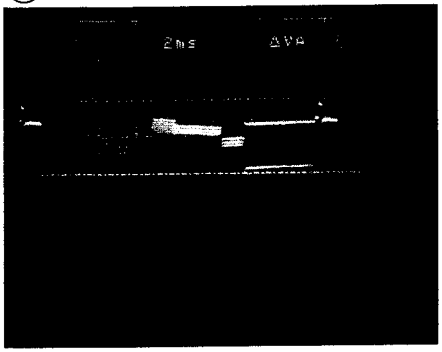


5V/div. 2ms/div.

WAVEFORMS AT EACH SECTIONS

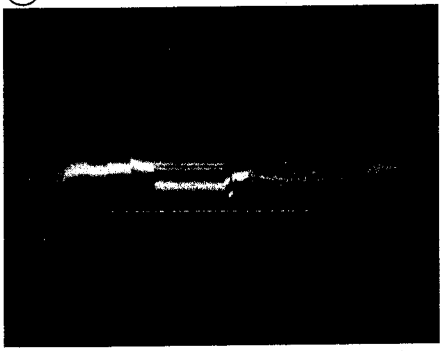
Numbers inside ○ correspond to locations shown in the circuit diagram

㉕ QV03 Base



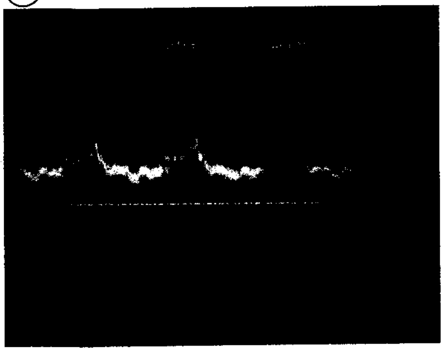
2V/div. 2ms/div.

㉖ QV07 Emitter



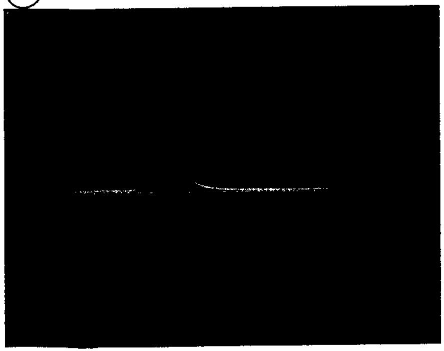
1V/div. 2ms/div.

㉗ PVMC Pin 1 Coil +



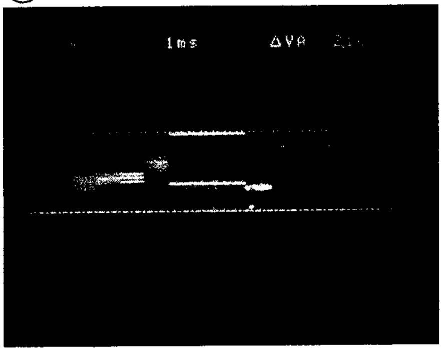
0.5V/div. 5ms/div.

㉘ PY2 Pin 4 Heater



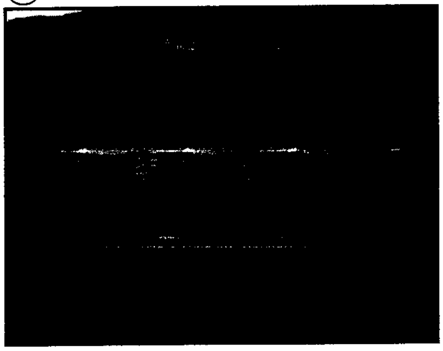
10V/div. 10μs/div.

㉙ QF03 Emitter Video Out



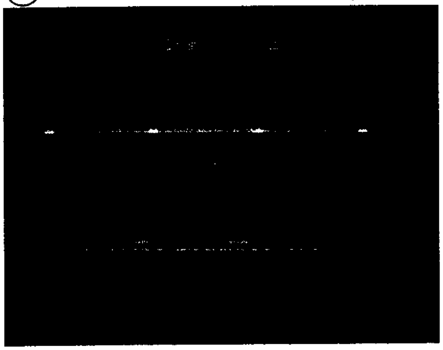
1V/div. 1ms/div.

㉚ Q852 Collector Video Amp.-Red



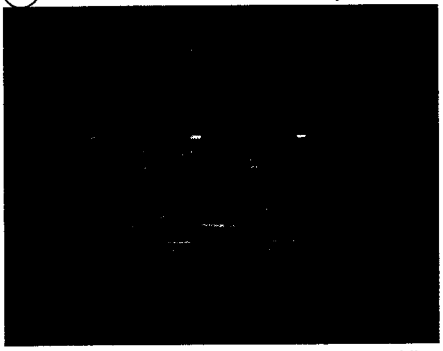
50V/div. 5ms/div.

㉛ Q857 Collector Video Amp.-Blue



50V/div. 5ms/div.

㉜ Q854 Collector Video Amp.-Green



50V/div. 4ms/div.

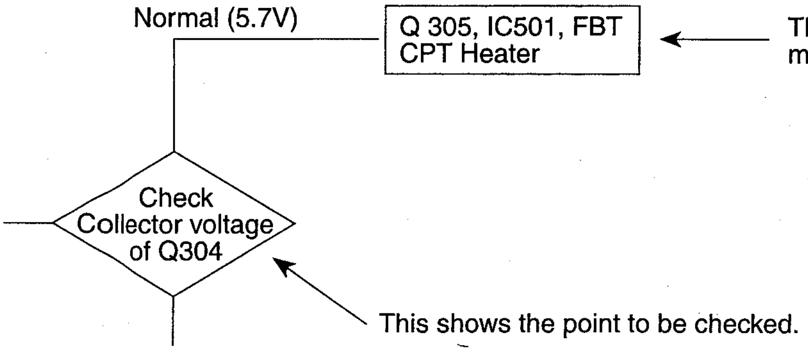
TROUBLESHOOTING

PRODUCT SAFETY NOTICE

The shaded and ⚠ marked components have special characteristics important to safety.
Read carefully the product safety notice of each Service Manual. Don't degrade the safety of the receiver through improper servicing when replacing any of these components.

HOW TO USE THE FLOW CHART

(1) The flow chart shows the following:



This shows the name of the faulty circuit and main parts to be checked.

This shows the point to be checked.

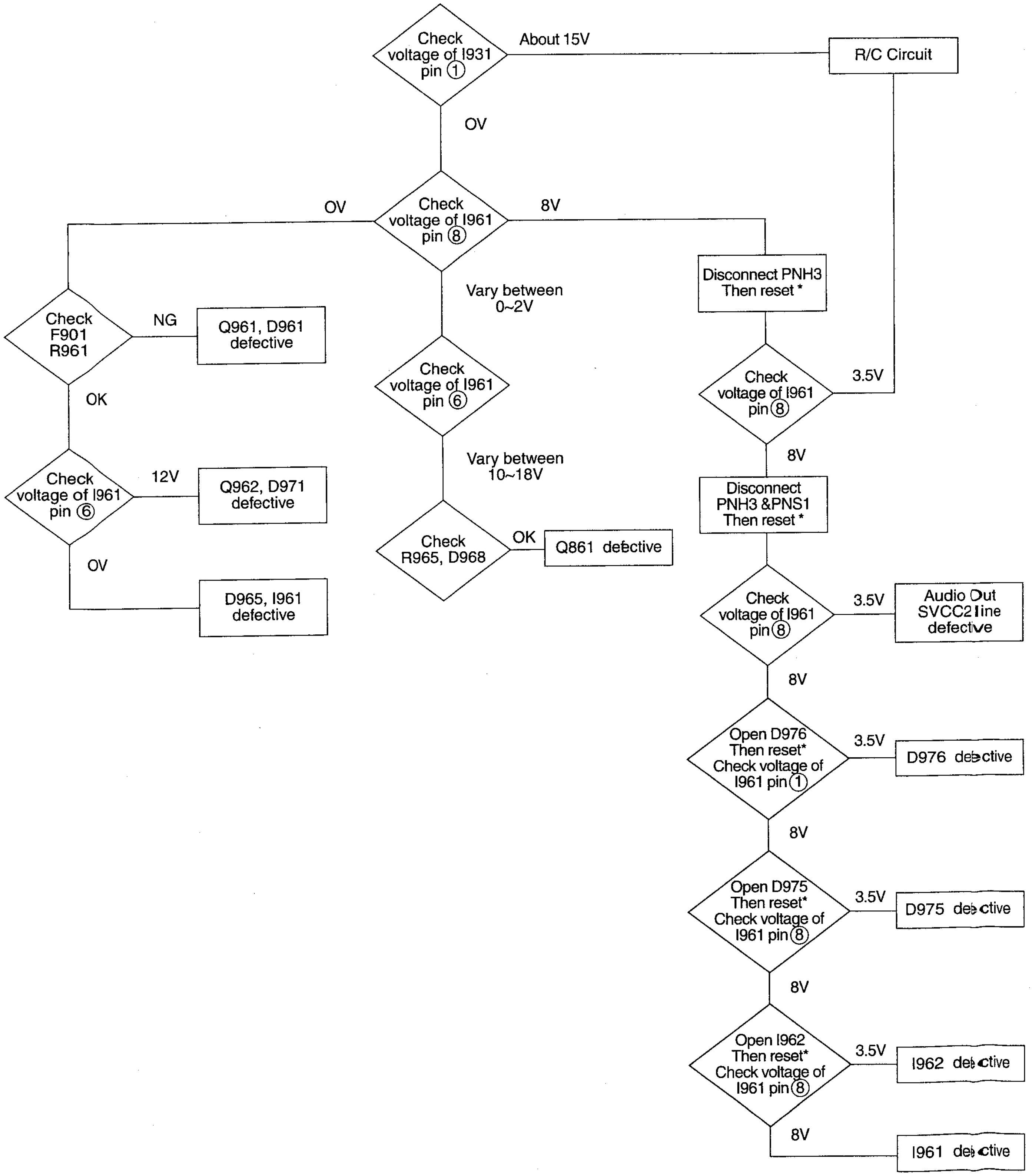
(2) The voltage shown in the chart may differ to some extent depending on the condition of the set and tester.

PRECAUTION ON MAKING MEASUREMENTS AND ON HANDLING

1. When any parts become abnormally hot or there is a smell of burning, cut off the pwer immediately.
2. Do not make shorts between circuits or across terminals except for those specified.
3. When applying a signal for checking purposes, make connection in the alternate current system for any not specified.
4. When measuring the voltages of ICs and TRs, be careful to see that the lead bar of the tester does not touch any other terminal.
5. Measure the voltage correctly.
6. Measure the resistance over a small range.
7. Be sure to switch off the power when replacing parts.
8. Do not apply a soldering iron for a long time when replacing parts. (Use a solder-wick.)
9. Use an isolation transformer when troubleshooting.

TROUBLESHOOTING

① POWER RELAY DOES NOT TURN ON

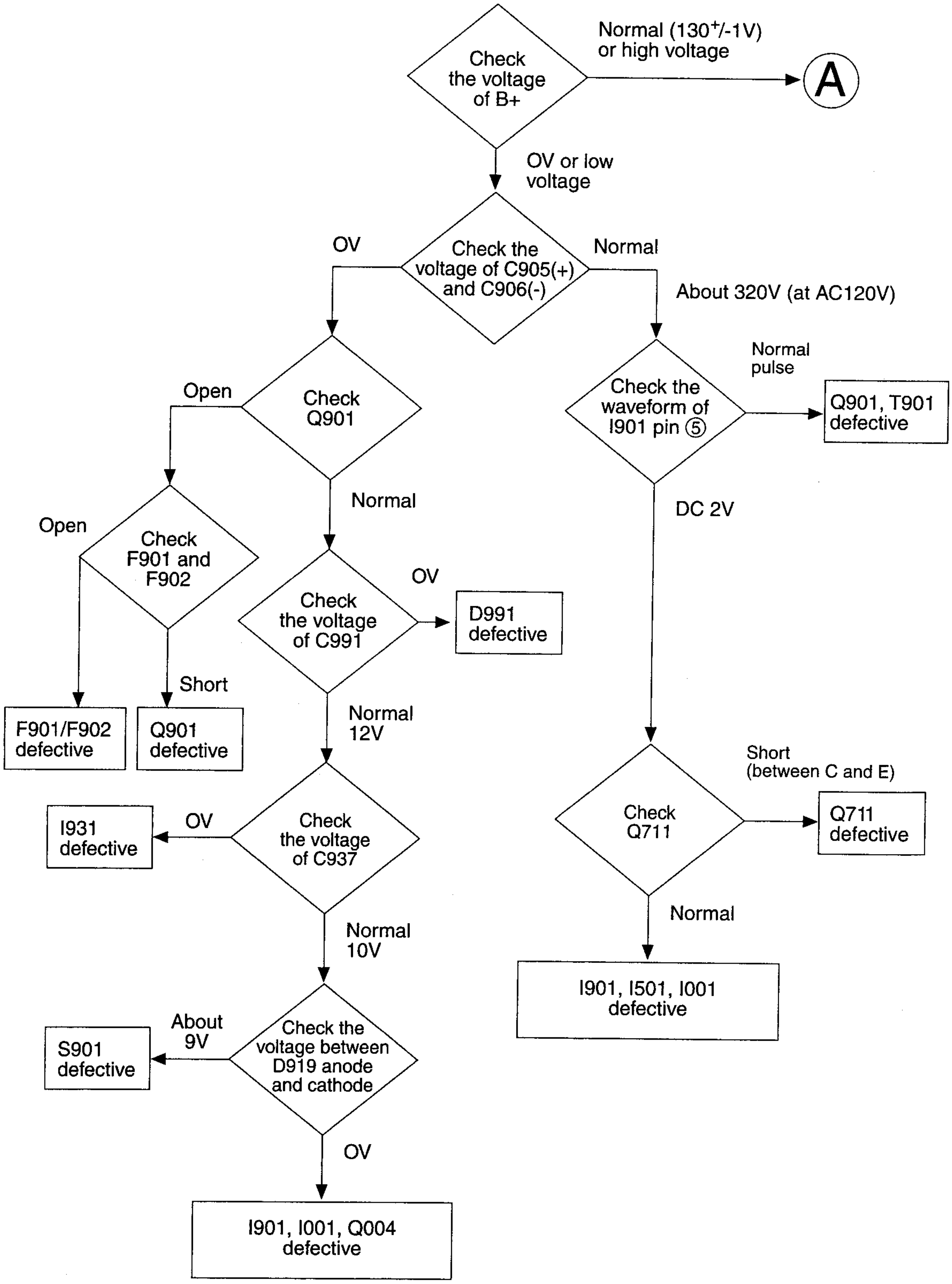

Check voltage of I931 pin ①
About 15V
R/C Circuit
0V
Check voltage of I961 pin ⑧
0V
8V
Disconnect PNH3 Then reset *
Vary between 0~2V
Check F901 R961
NG
Q961, D961 defective
OK
Check voltage of I961 pin ⑥
Check voltage of I961 pin ⑧
3.5V
8V
Vary between 10~18V
Check voltage of I961 pin ⑥
12V
Q962, D971 defective
Disconnect PNH3 &PNS1 Then reset *
Check R965, D968
OK
Q861 defective
0V
D965, I961 defective
Check voltage of I961 pin ⑧
3.5V
Audio Out SVCC2 line defective
8V
Open D976 Then reset* Check voltage of I961 pin ①
3.5V
D976 defective
8V
Open D975 Then reset* Check voltage of I961 pin ⑧
3.5V
D975 defective
8V
Open I962 Then reset* Check voltage of I961 pin ⑧
3.5V
I962 defective
8V
I961 defective

Note/Caution:

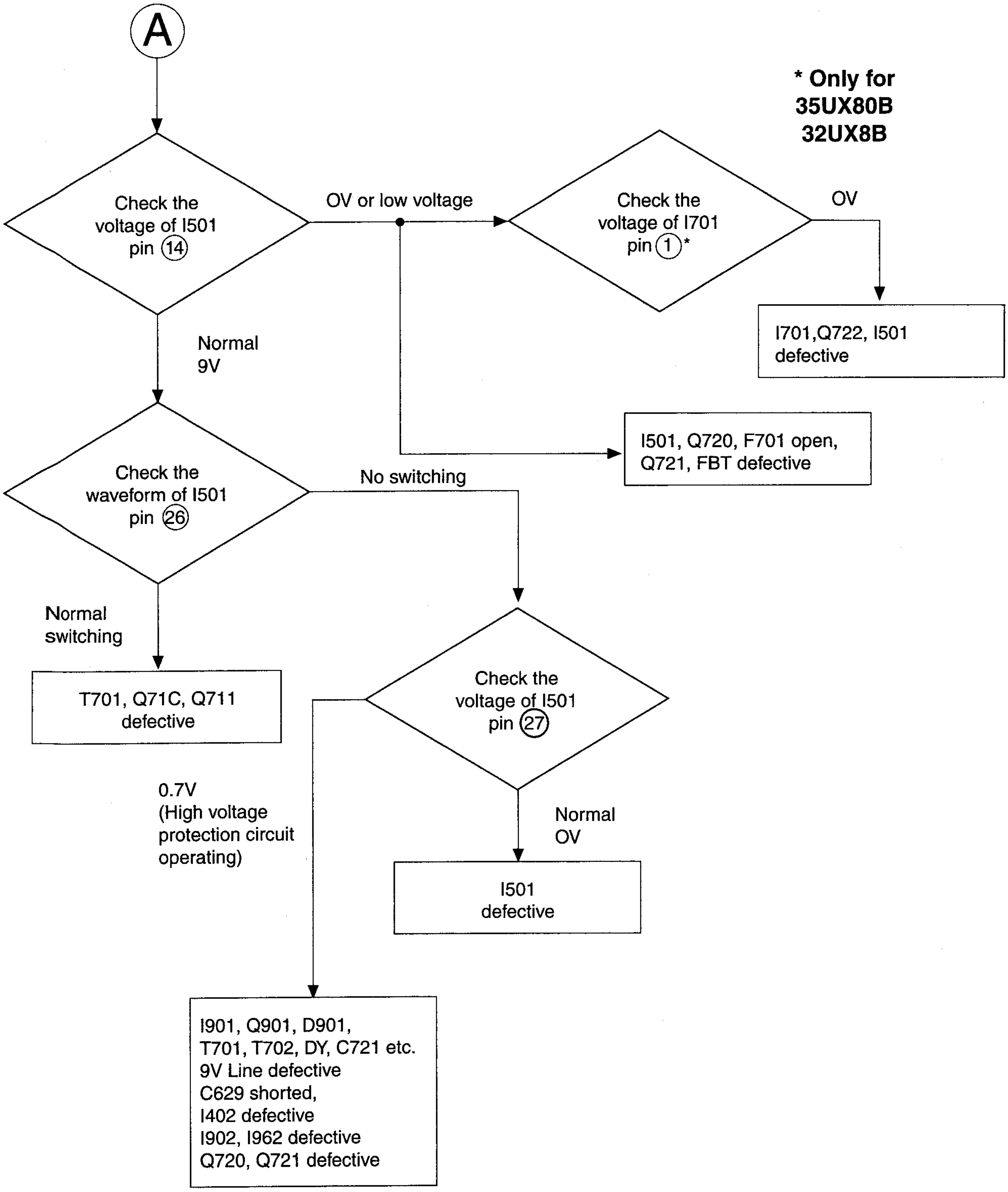
- * Reset means to make a short circuit between IC961 pin ⑥ and pin ④. Do not remove power cord from Isolation Transformer AC outlet when doing this Reset.

TROUBLESHOOTING

② NO RASTER AND SOUND


Check the voltage of B+
Normal (130+/-1V) or high voltage
A
OV or low voltage
Check the voltage of C905(+) and C906(-)
OV
Normal
About 320V (at AC120V)
Check Q901
Open
Check the waveform of I901 pin ⑤
Normal pulse
Q901, T901 defective
Normal
DC 2V
Check F901 and F902
Open
Short
F901/F902 defective
Q901 defective
Check the voltage of C991
OV
D991 defective
Normal 12V
Check Q711
Short (between C and E)
Q711 defective
Normal
I901, I501, I001 defective
Check the voltage of C937
OV
I931 defective
Normal 10V
Check the voltage between D919 anode and cathode
About 9V
S901 defective
OV
I901, I001, Q004 defective

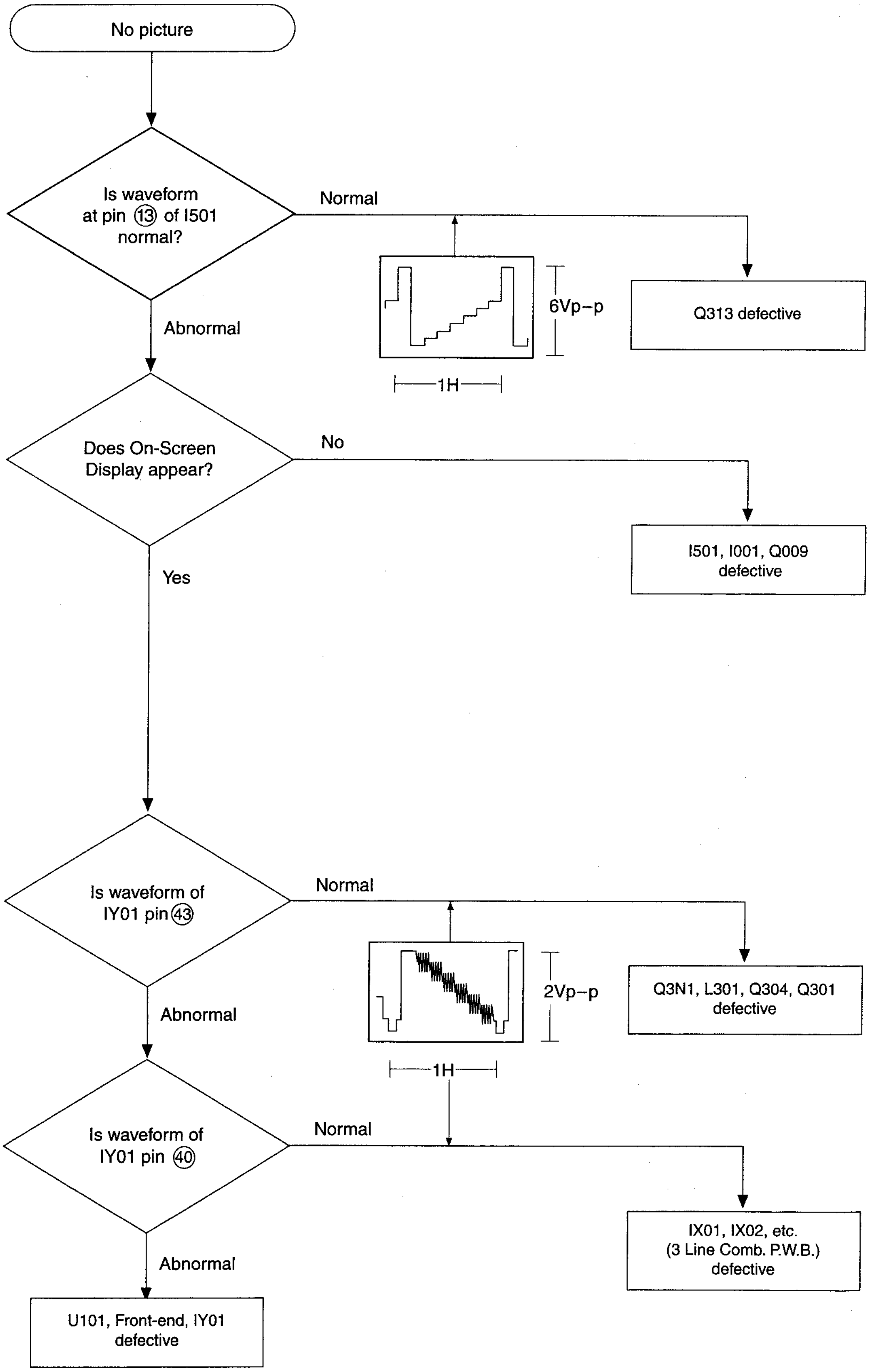
TROUBLESHOOTING


A
Check the voltage of I501 pin ⑭
OV or low voltage
Check the voltage of I701 pin ①*
OV
I701,Q722, I501 defective
Normal 9V
I501, Q720, F701 open, Q721, FBT defective
Check the waveform of I501 pin ㉖
No switching
Normal switching
T701, Q71C, Q711 defective
Check the voltage of I501 pin ㉗
0.7V (High voltage protection circuit operating)
Normal OV
I501 defective
I901, Q901, D901, T701, T702, DY, C721 etc. 9V Line defective C629 shorted, I402 defective I902, I962 defective Q720, Q721 defective

*** Only for
35UX80B
32UX8B**

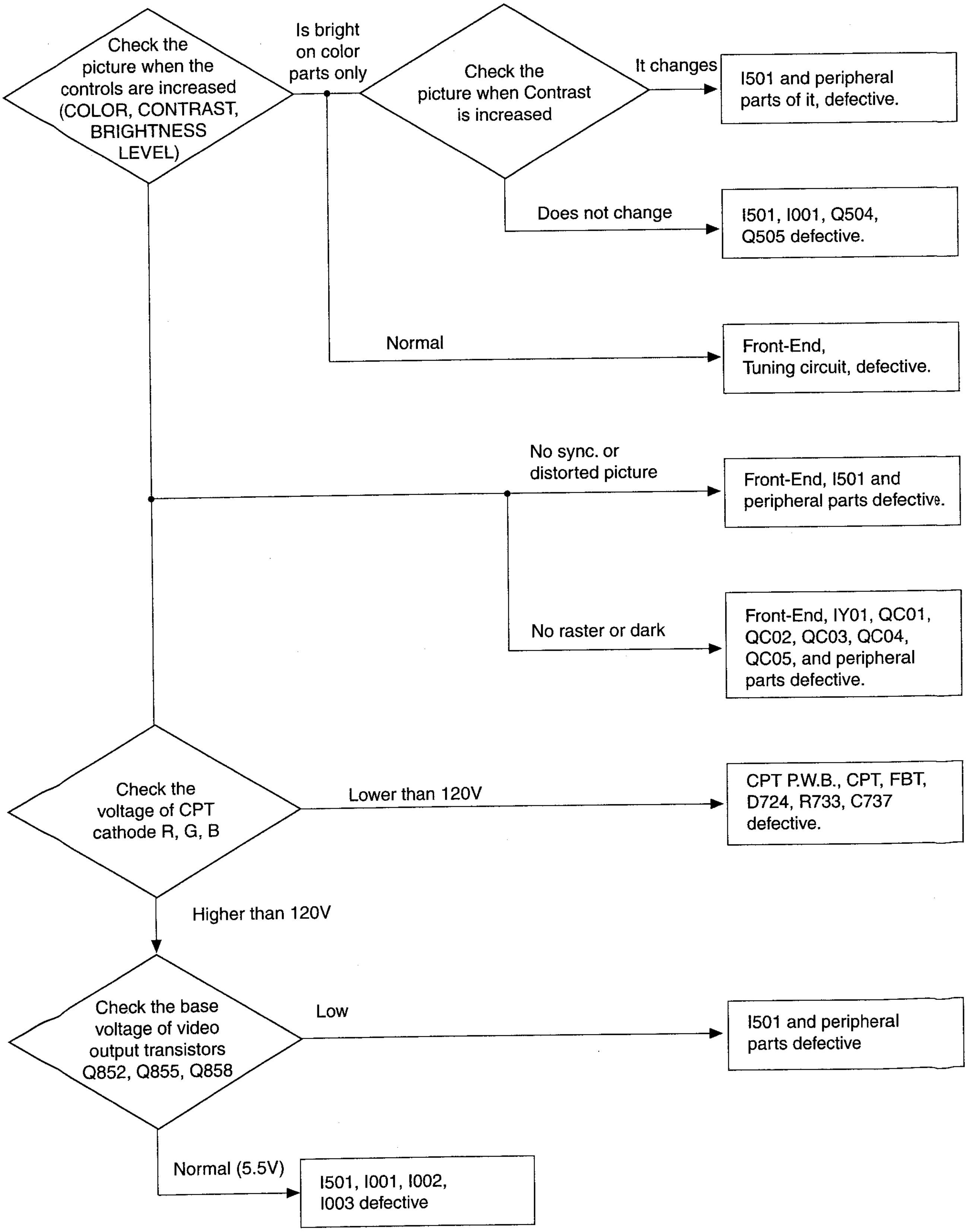
TROUBLESHOOTING

③ NO PICTURE


No picture
Is waveform at pin ⑬ of I501 normal?
Normal
Abnormal
6Vp−p
1H
Q313 defective
Does On-Screen Display appear?
No
Yes
I501, I001, Q009 defective
Is waveform of IY01 pin ㊸
Normal
Abnormal
2Vp−p
1H
Q3N1, L301, Q304, Q301 defective
Is waveform of IY01 pin ㊵
Normal
Abnormal
IX01, IX02, etc. (3 Line Comb. P.W.B.) defective
U101, Front-end, IY01 defective

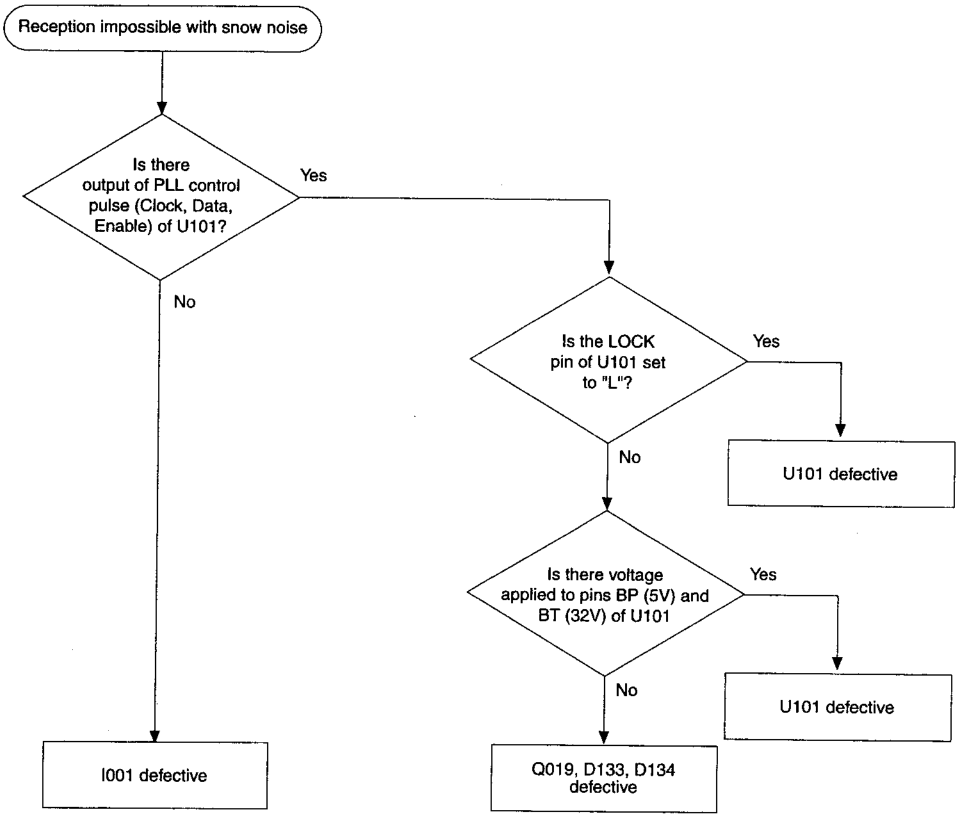
TROUBLESHOOTING

④ DARK PICTURE

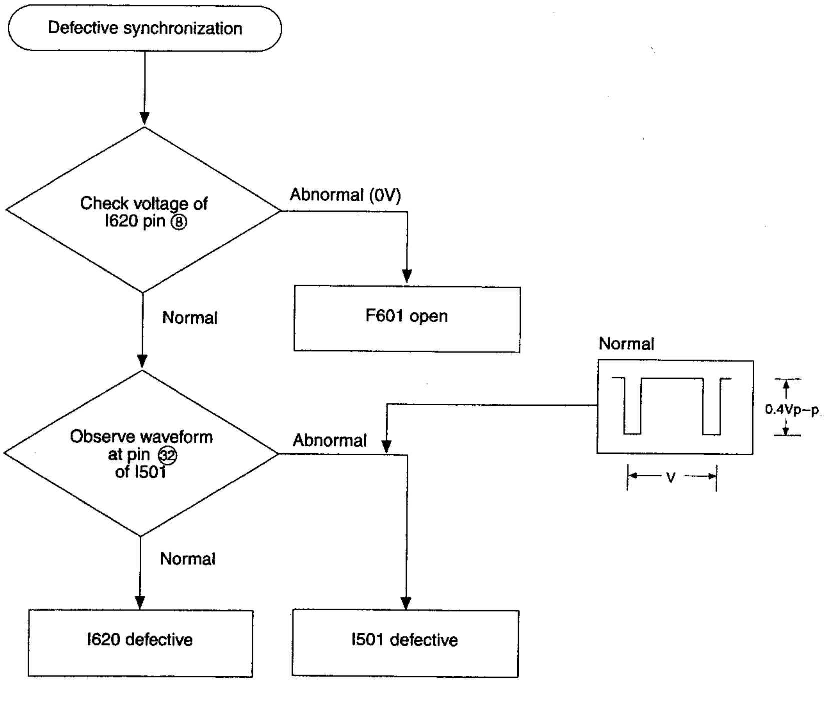

Check the picture when the controls are increased (COLOR, CONTRAST, BRIGHTNESS LEVEL)
Is bright on color parts only
Check the picture when Contrast is increased
It changes
I501 and peripheral parts of it, defective.
Does not change
I501, I001, Q504, Q505 defective.
Normal
Front-End, Tuning circuit, defective.
No sync. or distorted picture
Front-End, I501 and peripheral parts defective.
No raster or dark
Front-End, IY01, QC01, QC02, QC03, QC04, QC05, and peripheral parts defective.
Check the voltage of CPT cathode R, G, B
Lower than 120V
CPT P.W.B., CPT, FBT, D724, R733, C737 defective.
Higher than 120V
Check the base voltage of video output transistors Q852, Q855, Q858
Low
I501 and peripheral parts defective
Normal (5.5V)
I501, I001, I002, I003 defective

TROUBLESHOOTING

⑤ RECEPTION IMPOSSIBLE WITH SNOW NOISE

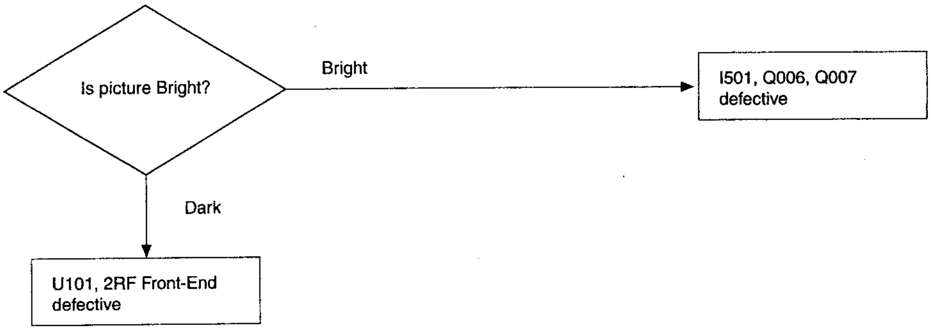

Reception impossible with snow noise
Is there output of PLL control pulse (Clock, Data, Enable) of U101?
Yes
No
Is the LOCK pin of U101 set to "L"?
Yes
U101 defective
No
Is there voltage applied to pins BP (5V) and BT (32V) of U101
Yes
U101 defective
No
I001 defective
Q019, D133, D134 defective

⑥ DEFECTIVE SYNCHRONIZATION

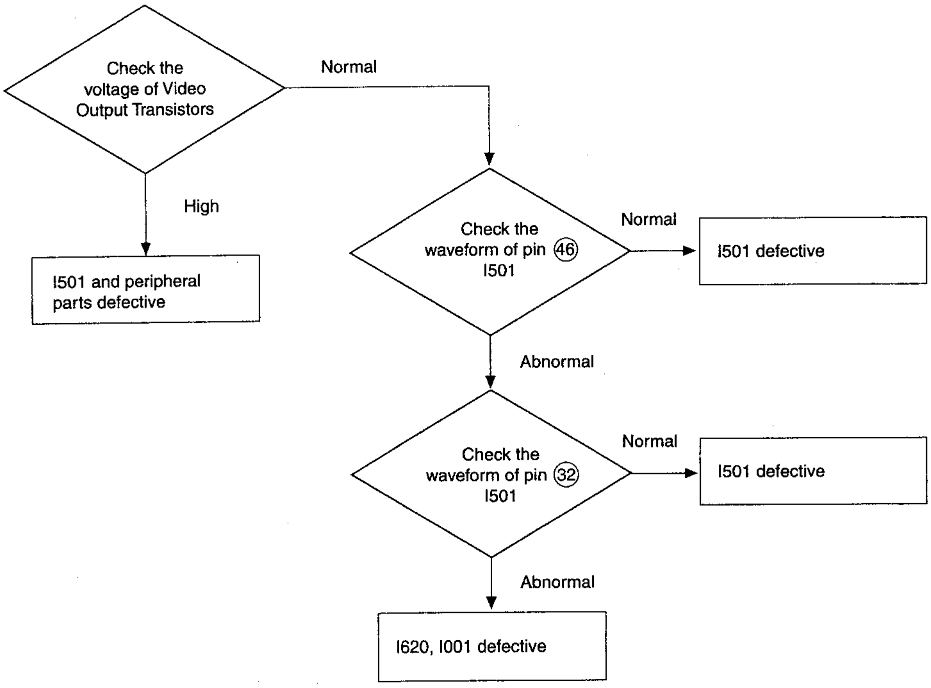

Defective synchronization
Check voltage of I620 pin ⑧
Abnormal (0V)
F601 open
Normal
Normal
0.4Vp-p
V
Observe waveform at pin ㉜ of I501
Abnormal
Normal
I620 defective
I501 defective

TROUBLESHOOTING

⑦ NO SYNC.

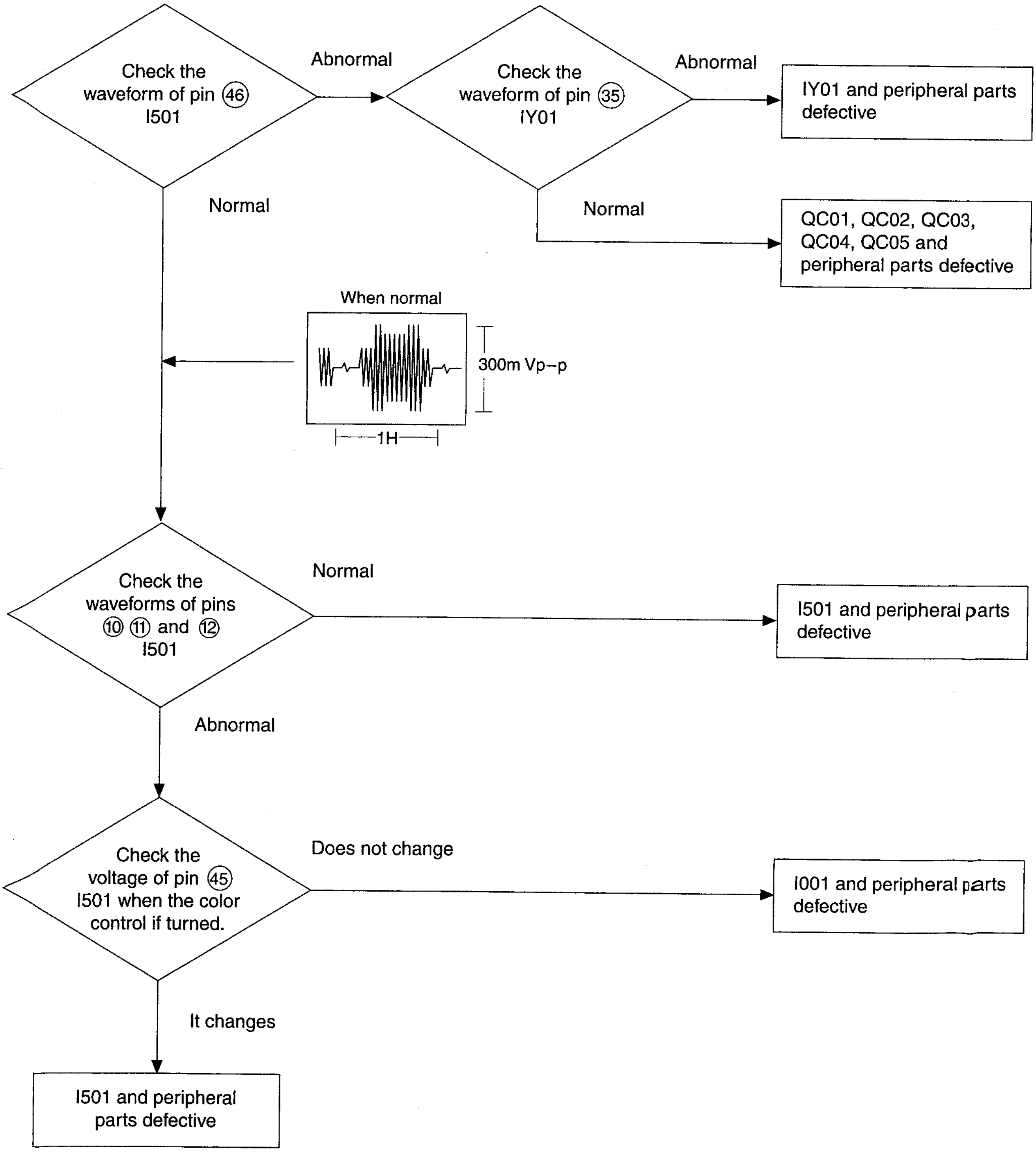

Is picture Bright?
Bright
I501, Q006, Q007 defective
Dark
U101, 2RF Front-End defective

⑧ ONLY RASTER OR FLYBACK TRACE APPARENT ON PICTURE


Check the voltage of Video Output Transistors
Normal
High
I501 and peripheral parts defective
Check the waveform of pin ㊻ I501
Normal
I501 defective
Abnormal
Check the waveform of pin ㉜ I501
Normal
I501 defective
Abnormal
I620, I001 defective

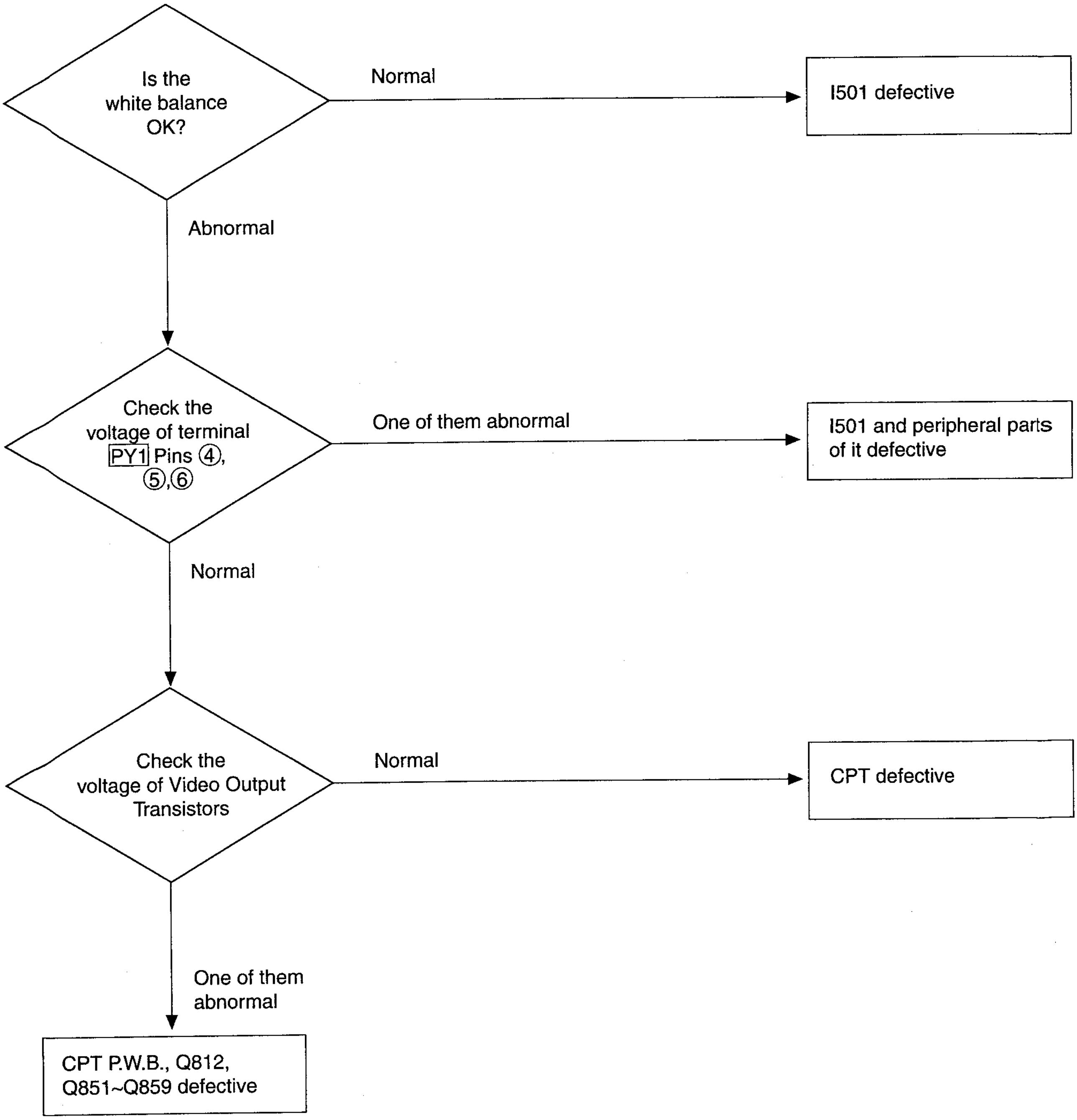
TROUBLESHOOTING

⑨ NO COLOR


Check the waveform of pin ㊻ I501
Abnormal
Check the waveform of pin ㉟ IY01
Abnormal
IY01 and peripheral parts defective
Normal
Normal
QC01, QC02, QC03, QC04, QC05 and peripheral parts defective
When normal
300m Vp–p
1H
Check the waveforms of pins ⑩ ⑪ and ⑫ I501
Normal
I501 and peripheral parts defective
Abnormal
Check the voltage of pin ㊺ I501 when the color control if turned.
Does not change
I001 and peripheral parts defective
It changes
I501 and peripheral parts defective

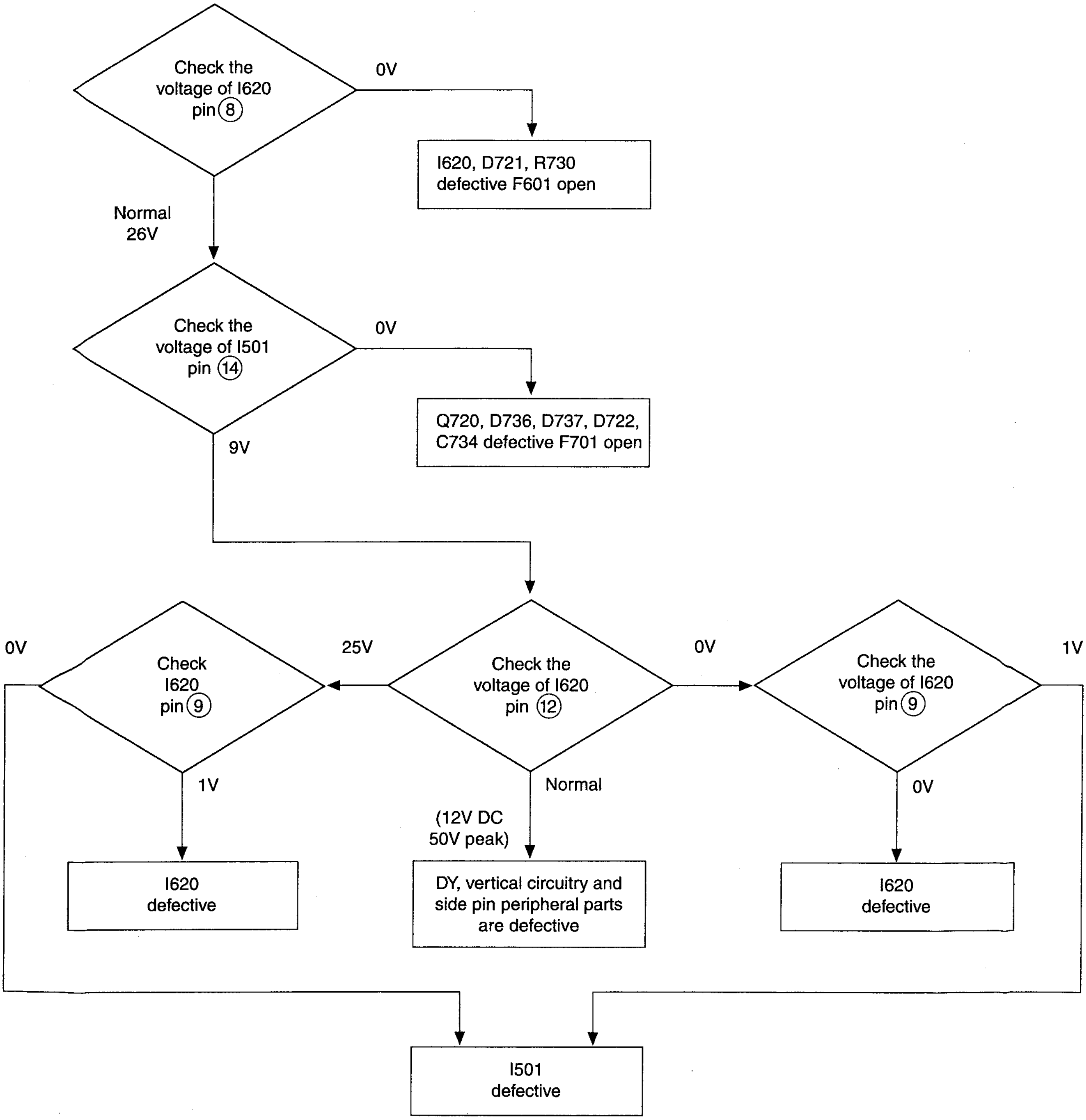
TROUBLESHOOTING

⑩ WHITE BALANCE/TINT DEFECTIVE


Is the white balance OK?
Normal
I501 defective
Abnormal
Check the voltage of terminal PY1 Pins ④, ⑤,⑥
One of them abnormal
I501 and peripheral parts of it defective
Normal
Check the voltage of Video Output Transistors
Normal
CPT defective
One of them abnormal
CPT P.W.B., Q812, Q851~Q859 defective

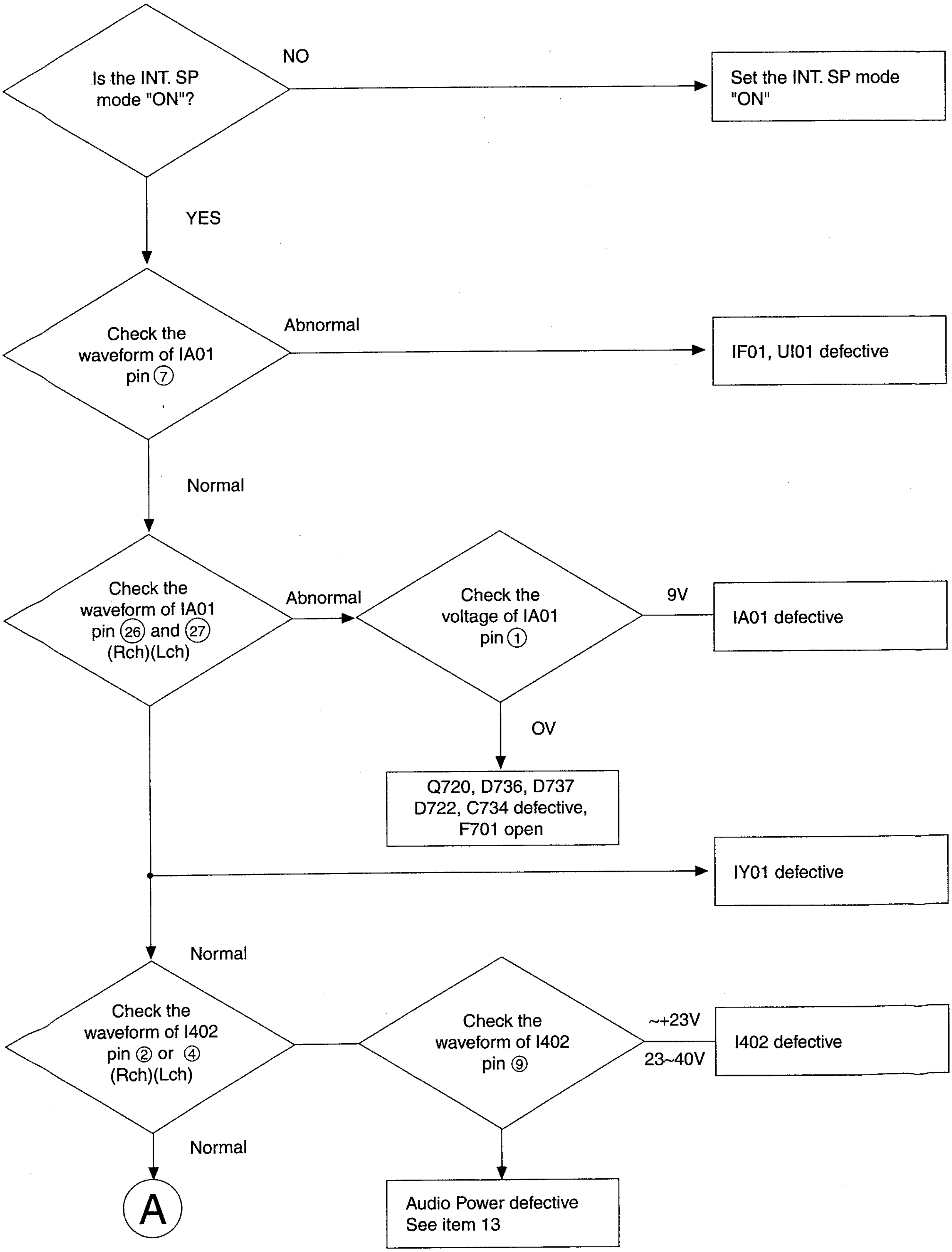
TROUBLESHOOTING

⑪ NO VERTICAL DEFLECTION OR V. SIZE IS DISTORTEDZ

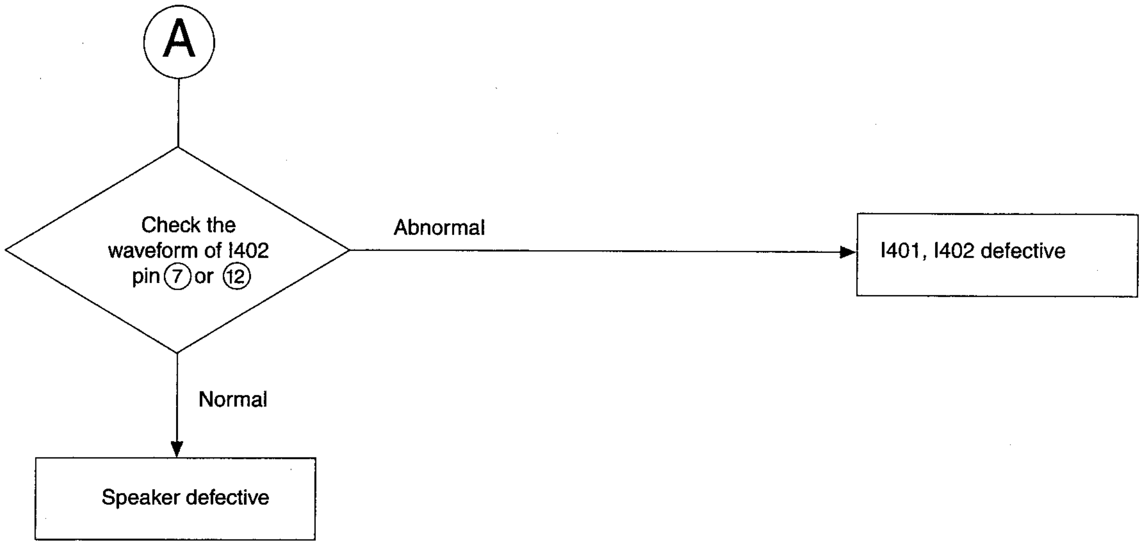

Check the voltage of I620 pin ⑧
0V
I620, D721, R730 defective F601 open
Normal 26V
Check the voltage of I501 pin ⑭
0V
Q720, D736, D737, D722, C734 defective F701 open
9V
0V
Check I620 pin ⑨
25V
Check the voltage of I620 pin ⑫
0V
Check the voltage of I620 pin ⑨
1V
1V
I620 defective
Normal
(12V DC 50V peak)
DY, vertical circuitry and side pin peripheral parts are defective
0V
I620 defective
I501 defective

TROUBLESHOOTING

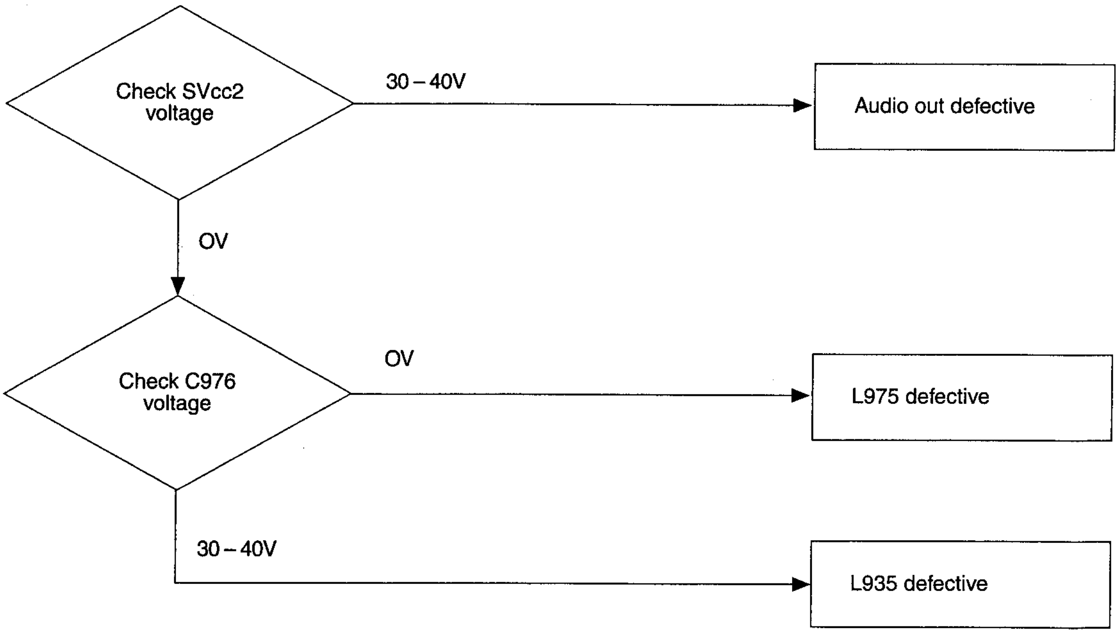
⑫ NO SOUND


Is the INT. SP mode "ON"?
NO
Set the INT. SP mode "ON"
YES
Check the waveform of IA01 pin ⑦
Abnormal
IF01, UI01 defective
Normal
Check the waveform of IA01 pin ㉖ and ㉗ (Rch)(Lch)
Abnormal
Check the voltage of IA01 pin ①
9V
IA01 defective
OV
Q720, D736, D737 D722, C734 defective, F701 open
IY01 defective
Normal
Check the waveform of I402 pin ② or ④ (Rch)(Lch)
Check the waveform of I402 pin ⑨
~+23V
23~40V
I402 defective
Normal
A
Audio Power defective See item 13

TROUBLESHOOTING

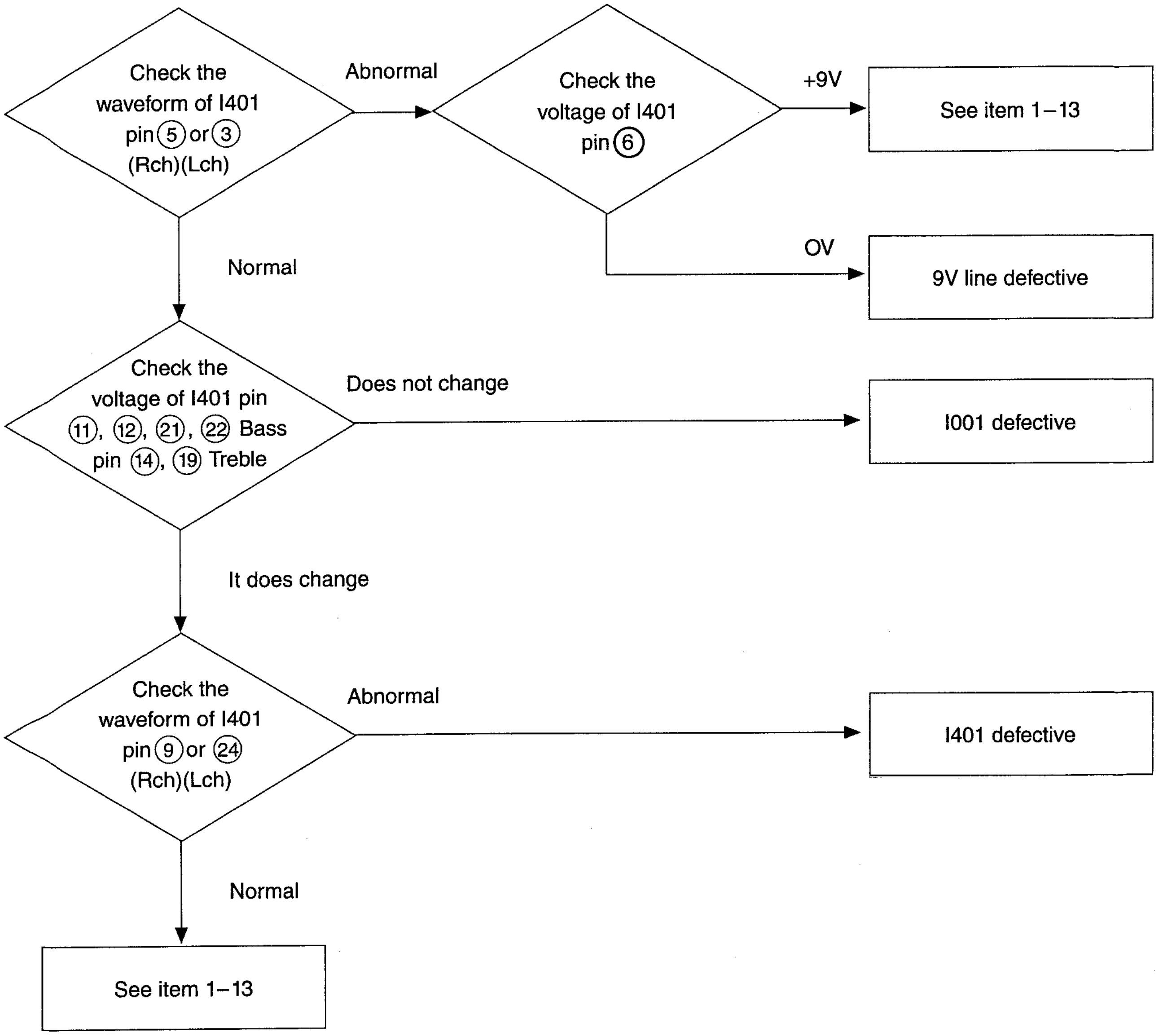

A
Check the waveform of I402 pin ⑦ or ⑫
Abnormal
I401, I402 defective
Normal
Speaker defective

⑬ NO SOUND (NO AUDIO POWER)


Check SVcc2 voltage
30 – 40V
Audio out defective
OV
Check C976 voltage
OV
L975 defective
30 – 40V
L935 defective

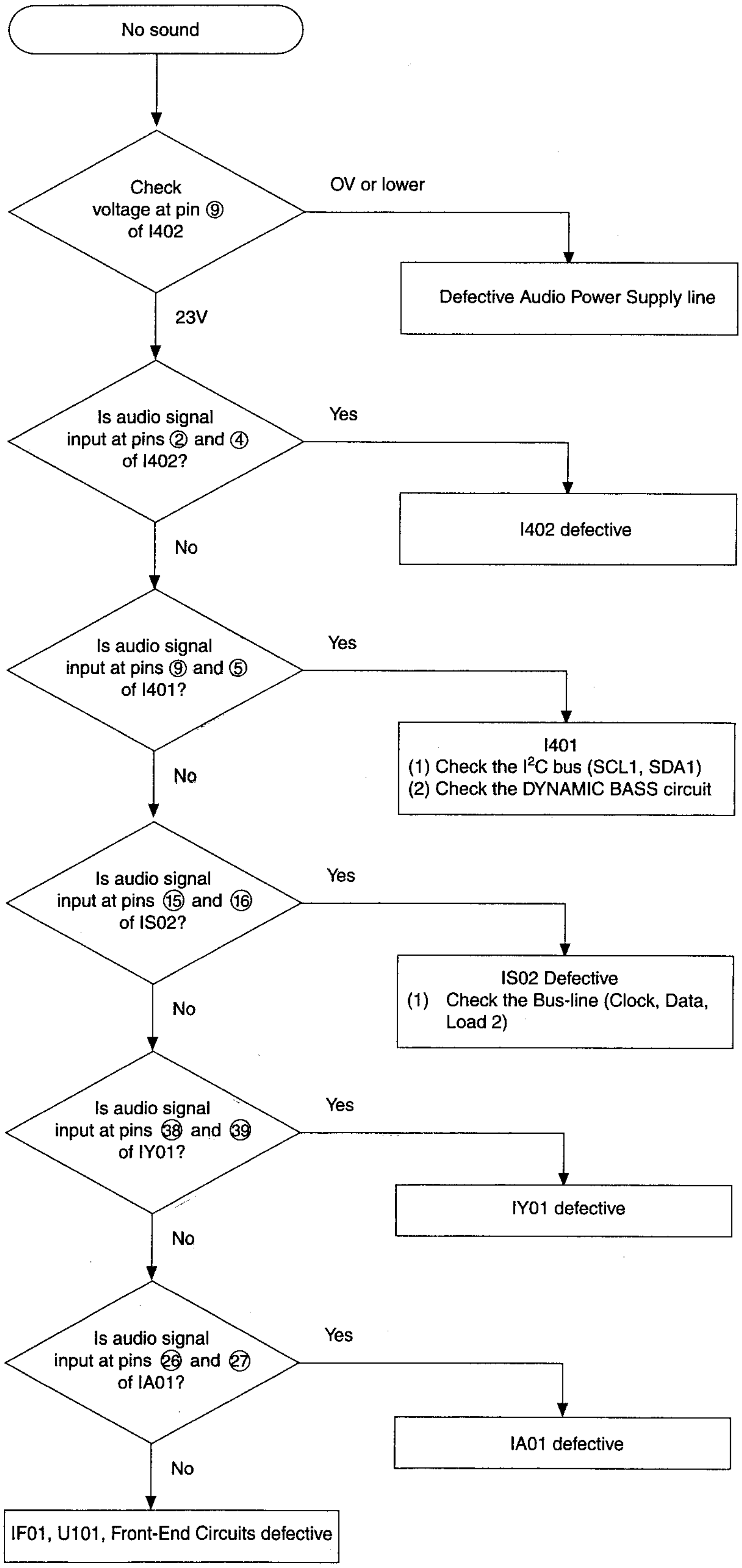
TROUBLESHOOTING

⑭ NO SOUND OR NOT VARIABLE (BASS, TREBLE)


Check the waveform of I401 pin⑤or③ (Rch)(Lch)
Abnormal
Check the voltage of I401 pin⑥
+9V
See item 1–13
OV
9V line defective
Normal
Check the voltage of I401 pin ⑪, ⑫, ㉑, ㉒ Bass pin ⑭, ⑲ Treble
Does not change
I001 defective
It does change
Check the waveform of I401 pin⑨or ㉔ (Rch)(Lch)
Abnormal
I401 defective
Normal
See item 1–13

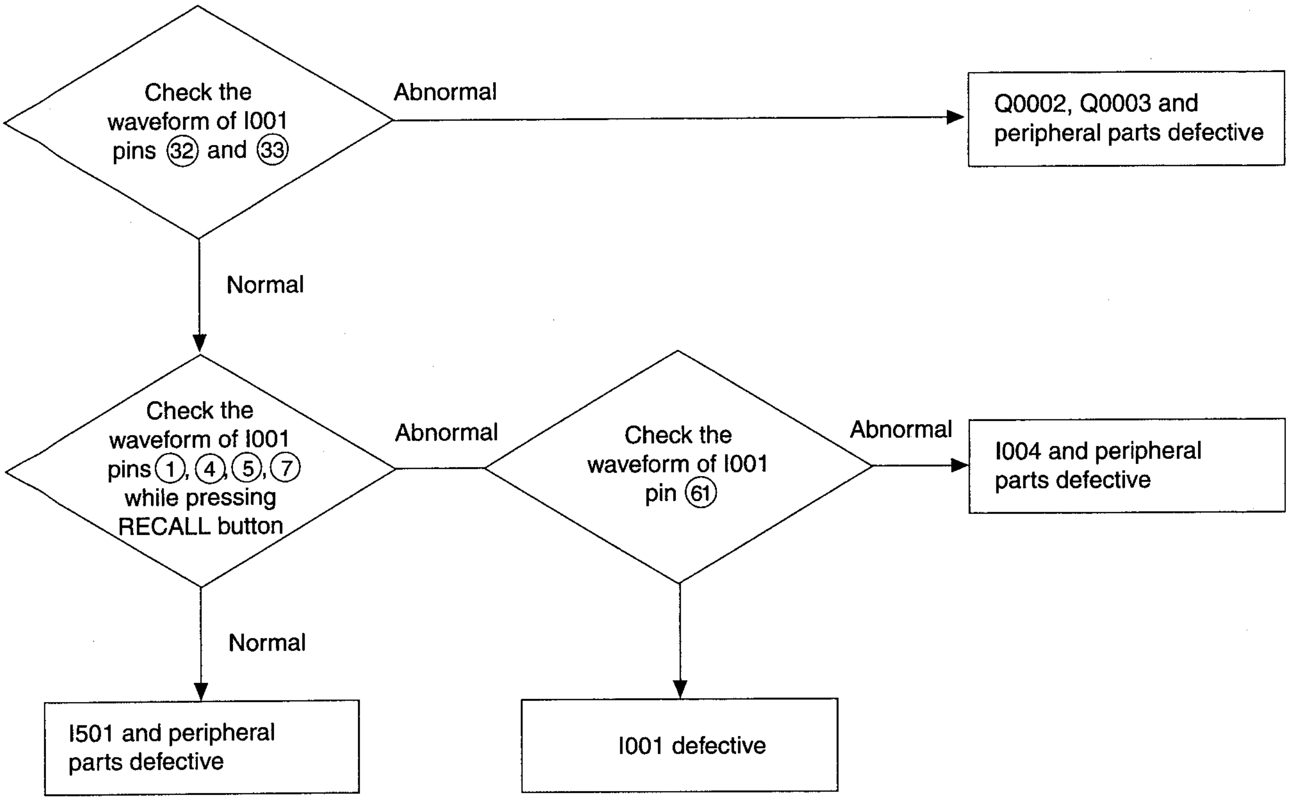
TROUBLESHOOTING

⑮ NO SOUND (WHEN SURROUND OFF)


No sound
Check voltage at pin ⑨ of I402
OV or lower
Defective Audio Power Supply line
23V
Is audio signal input at pins ② and ④ of I402?
Yes
I402 defective
No
Is audio signal input at pins ⑨ and ⑤ of I401?
Yes
I401
(1) Check the I²C bus (SCL1, SDA1)
(2) Check the DYNAMIC BASS circuit
No
Is audio signal input at pins ⑮ and ⑯ of IS02?
Yes
IS02 Defective
(1) Check the Bus-line (Clock, Data, Load 2)
No
Is audio signal input at pins ㊳ and ㊴ of IY01?
Yes
IY01 defective
No
Is audio signal input at pins ㉖ and ㉗ of IA01?
Yes
IA01 defective
No
IF01, U101, Front-End Circuits defective

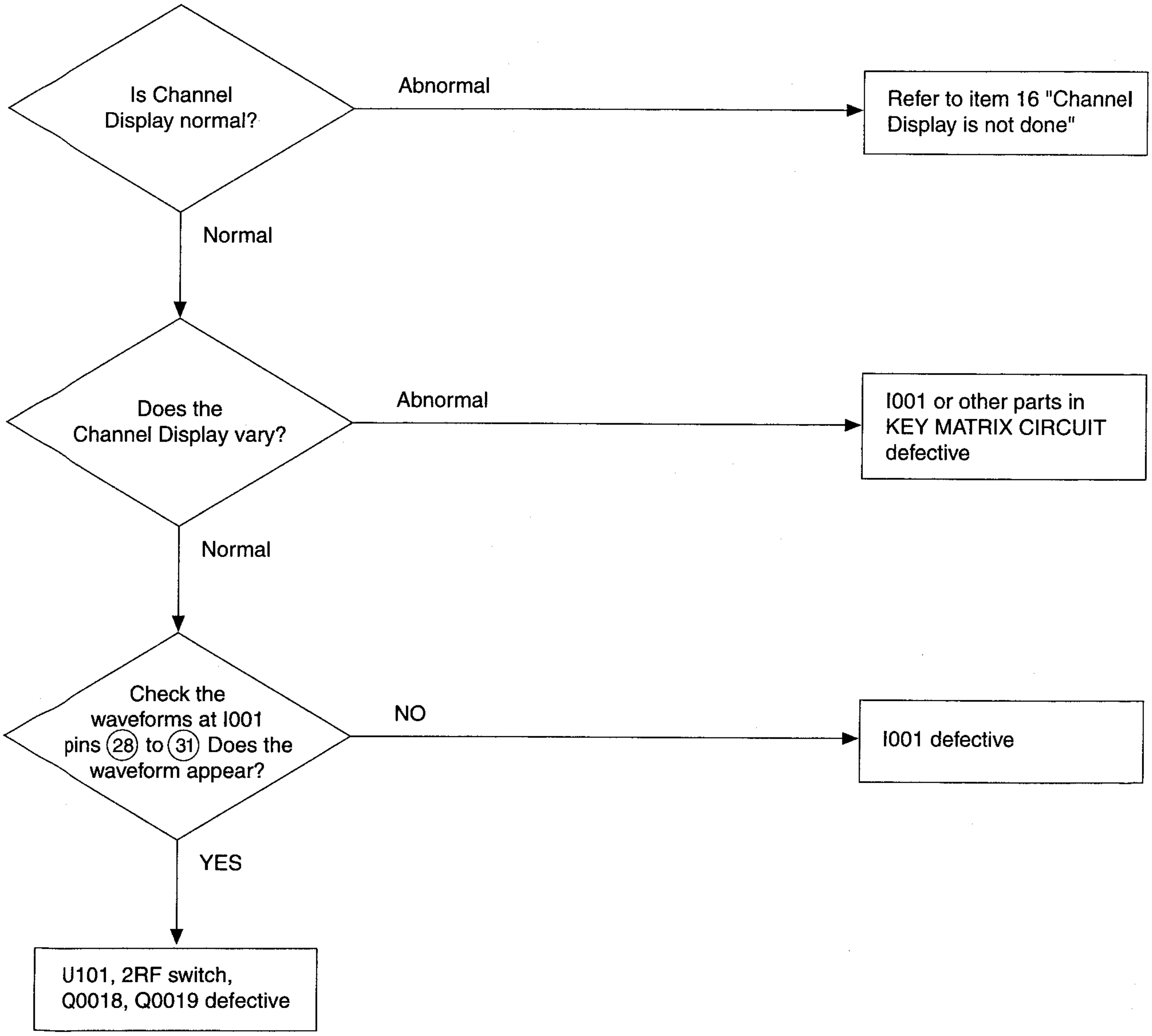
TROUBLESHOOTING

⑯ CHANNEL DISPLAY IS NOT DONE


Check the waveform of I001 pins ㉜ and ㉝
Abnormal
Q0002, Q0003 and peripheral parts defective
Normal
Check the waveform of I001 pins ①, ④, ⑤, ⑦ while pressing RECALL button
Abnormal
Check the waveform of I001 pin (61)
Abnormal
I004 and peripheral parts defective
Normal
I501 and peripheral parts defective
I001 defective

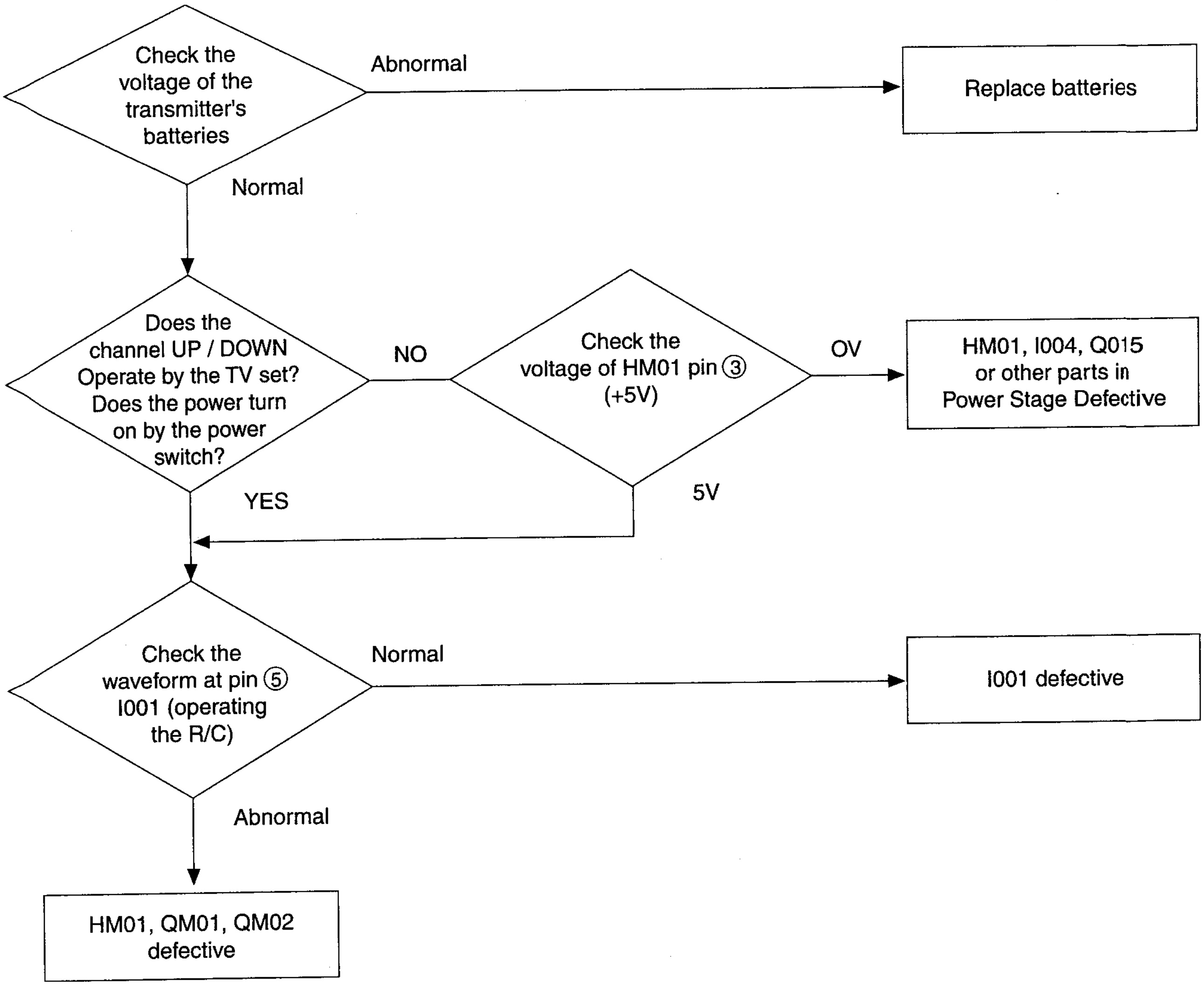
TROUBLESHOOTING

⑰ CHANNEL SELECTION IS NOT DONE


Is Channel Display normal?
Abnormal
Refer to item 16 "Channel Display is not done"
Normal
Does the Channel Display vary?
Abnormal
I001 or other parts in KEY MATRIX CIRCUIT defective
Normal
Check the waveforms at I001 pins ㉘ to ㉛ Does the waveform appear?
NO
I001 defective
YES
U101, 2RF switch, Q0018, Q0019 defective

TROUBLESHOOTING

⑱ DOES NOT OPERATE BY REMOTE CONTROL


Check the voltage of the transmitter's batteries
Abnormal
Replace batteries
Normal
Does the channel UP / DOWN Operate by the TV set? Does the power turn on by the power switch?
NO
Check the voltage of HM01 pin ③ (+5V)
OV
HM01, I004, Q015 or other parts in Power Stage Defective
5V
YES
Check the waveform at pin ⑤ I001 (operating the R/C)
Normal
I001 defective
Abnormal
HM01, QM01, QM02 defective

REPLACEMENT PARTS LIST

PRODUCT SAFETY NOTE: Components marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully, the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

ABBREVIATIONS

Capacitors:
CD: Ceramic Disc
PF: Polyester Film
EL: Electrolytic
PP: Polypropylene
PR: Paper
TA: Tantalum
TM: Trimmer

Resistors:
CF: Carbon Film
CC: Carbon Composition
MF: Metal Oxide Film
VR: Variable Resistor
WW: Wire Wound
FR: Fuse Resistor
MG: Metal Glaze

Semiconductors:
TR: Transistor
DI: Diode
ZD: Zener Diode
VA: Varistor
TH: Thermistor
IC: Integrated Circuit

SYMBOL NO.	PART NO.	PART DESCRIPTION
		CAPACITORS
C001	0276717R	PF. 0.1UF-J 50V (TF TYPE E)
C002	0800047R	EL. 100UF-M 6.3V
C003	0276717R	PF. 0.1UF-J 50V (TF TYPE E)
C004	0890067R	CD. 33PF-J 50V
C005	0244171R	CD. 0.01UF-Z F 50V TAPE
C006	0800015R	EL. 10UF-M 16V
C007	0890067R	CD. 33PF-J 50V
C010	0800009R	EL. 4.7UF-M 25V
C011	0800009R	EL. 4.7UF-M 25V
C012	0800009R	EL. 4.7UF-M 25V
C013	0800009R	EL. 4.7UF-M 25V
C014	0800009R	EL. 4.7UF-M 25V
C015	0880012R	MYLAR 0.022U
C016	0800009R	EL. 4.7UF-M 25V
C017	0800009R	EL. 4.7UF-M 25V
C018	0800047R	EL. 100UF-M 6.3V
C019	0276717R	PF. 0.1UF-J 50V (TF TYPE E)
C020	0890085R	CD. 680PF-K 50V
C021	0800015R	EL. 10UF-M 16V
C022	0890076R	CD. 150PF-K 50V
C023	0890071R	CD. 56PF-J 50V
C024	0890087R	CD. 1000PF-K 50V
C025	0800047R	EL. 100UF-M 6.3V
C026	0276717R	PF. 0.1UF-J 50V (TF TYPE E)
C027	0800023R	EL. 22UF-M 16V
C028	0890074R	CD. 100PF-J 50V
C029	0890074R	CD. 100PF-J 50V
C030	0890074R	CD. 100PF-J 50V
C031	0800048R	EL. 100UF-M 10V
C032	0800015R	EL. 10UF-M 16V
C033	0890074R	CD. 100PF-J 50V
C035	0276717R	PF. 0.1UF-J 50V (TF TYPE E)
C036	0800009R	EL. 4.7UF-M 25V
C037	0800082F	EL. 1000UF-M 16V
C038	0276717R	PF. 0.1UF-J 50V (TF TYPE E)
C039	0800049R	EL. 100UF-M 16V
C040	0890084R	CD. 560PF-K 50V
C041	0800003R	EL. 1.0UF-M 50V
C042	0800003R	EL. 1.0UF-M 50V
C043	0800047R	EL. 100UF-M 6.3V
C045	0800273R	EL. 0.22UF-M 50V
C046	0800023R	EL. 22UF-M 16V
C0501	0800023R	EL. 22UF-M 16V (CZ56)
C0502	0244171R	CD. 0.01UF-Z F 50V TAPE (CZ56)
C0503	0800003R	EL. 1.0UF-M 50V (CZ56)
C0504	0244171R	CD. 0.01UF-Z F 50V TAPE (CZ56)
C0505	0244171R	CD. 0.01UF-Z F 50V TAPE (CZ56)
C0516	0880016R	PF. 0.1UF 50V (CZ56)
C0N1	0880044R	PF. 0.01UF-KEB 50V
C0N2	0880035R	PF. 2200PF-50V
C301	0276717R	PF. 0.1UF-J 50V (TF TYPE E)
C302	0800015R	EL. 10UF-M 16V
C303	0800007R	EL. 3.3UF-M 50V
C305	0800003R	EL. 1.0UF-M 50V
C306	0244171R	CD. 0.01UF-Z F 50V TAPE
C307	0244171R	CD. 0.01UF-Z F 50V TAPE
C308	0244171R	CD. 0.01UF-Z F 50V TAPE
C309	0244171R	CD. 0.01UF-Z F 50V TAPE
C310	0244171R	CD. 0.01UF-Z F 50V TAPE
C311	0244171R	CD. 0.01UF-Z F 50V TAPE
C312	0800023R	EL. 22UF-M 16V
C313	0800015R	EL. 10UF-M 16V
C314	0800003R	EL. 1.0UF-M 50V
C315	0244171R	CD. 0.01UF-Z F 50V TAPE
C317	0800003R	EL. 1.0UF-M 50V
C318	0800003R	EL. 1.0UF-M 50V
C319	0800009R	EL. 4.7UF-M 25V
C323	0880051R	PF. 0.033UF-KEB 50V
C324	0800009R	EL. 4.7UF-M 25V
C325	0880031R	PF.1000PF-K 50V
C326	0800003R	EL. 1.0UF-M 50V
C327	0800049R	EL. 100UF-M 16V
C328	0244171R	CD. 0.01UF-Z F 50V TAPE
C329	0800009R	EL. 4.7UF-M 25V
C330	0800049R	EL. 100UF-M 16V
C331	0800049R	EL. 100UF-M 16V
C332	0800015R	EL. 10UF-M 16V
C333	0880046R	PF. 0.015UF-K 50V
C334	0880051R	PF. 0.033UF-KEB 50V
C335	0880037R	PF. 0.0033UF-KEB50V
C336	0276717R	PF. 0.1UF-J 50V (TF TYPE E)
C337	0880037R	PF. 0.0033UF-KEB50V
C338	0890082R	CD. 390PF-K 50V
C339	0880037R	PF. 0.0033UF-KEB50V
C340	0800003R	EL. 1.0UF-M 50V
C346	0800009R	EL. 4.7UF-M 25V
C3801	0800015R	EL. 10UF-M 16V (CZ56)
C3802	0800015R	EL. 10UF-M 16V (CZ56)
C3803	0800041R	EL. 47UF-M 16V (CZ56)
C3804	0800015R	EL. 10UF-M 16V (CZ56)
C3805	0244171R	CD. 0.01UF-Z F 50V TAPE (CZ56)
C3N1	0800041R	EL. 47UF-M 16V
C3N2	0244105R	CD. 2200PF-K 50V TAPE
C401	0800015R	EL. 10UF-M 16V
C402	0800015R	EL. 10UF-M 16V
C403	0800049R	EL. 100UF-M 16V
C404	0284623R	EL. 1UF-SME(BP) 50V
C405	0880055R	PF. 0.068UF-KEB 50V
C406	0890087R	CD. 1000PF-K 50V
C407	0800015R	EL. 10UF-M 16V
C409	0890087R	CD. 1000PF-K 50V
C410	0800049R	EL. 100UF-M 16V
C411	0800015R	EL. 10UF-M 16V
C412	0284638R	EL. 10UF-SME(BP) 16V
C413	0284638R	EL. 10UF-SME(BP) 16V
C414	0800041R	EL. 47UF-M 16V
C415	0800049R	EL. 100UF-M 16V
C416	0800015R	EL. 10UF-M 16V
C417	0880055R	PF. 0.068UF-KEB 50V
C418	0284623R	EL. 1UF-SME(BP) 50V
C419	0880051R	PF. 0.033UF-KEB 50V
C420	0880041R	PF. 0.0056UF-KEB 50V
C421	0880051R	PF. 0.033UF-KEB 50V
C422	0880041R	PF. 0.0056UF-KEB 50V

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SYMBOL NO.	PART NO.	PART DESCRIPTION
C423	0800015R	EL. 10UF-M 16V
C427	0800003R	EL. 1.0UF-M 50V (CZ58)
C427	0800003R	EL. 1.0UF-M 50V (CZ56/57/CY58)
C427	0800003R	EL 1.0UF-M 50V (CZ57P)
C428	0800003R	EL. 1.0UF-M 50V (CZ58)
C428	0800003R	EL. 1.0UF-M 50V (CZ56/57/CY58)
C428	0800003R	EL 1.0UF-M 50V (CZ57P)
C432	0800015R	EL. 10UF-M 16V
C432	0800015R	EL. 10UF-M 16V (CZ57P)
C433	0800003R	EL. 1.0UF-M 50V (CZ58)
C433	0800074N	EL. 470UF-M 16V
C434	0800003R	EL. 1.0UF-M 50V
C435	0880035R	PF. 2200PF-50V
C436	0880035R	PF. 2200PF-50V
C437	0800042R	EL. 47UF-M 25V
C438	0800042R	EL. 47UF-M 25V
C439	0800051R	EL. 100UF-M 25V
C440	0800003R	EL. 1.0UF-M 50V
C441	0800041R	EL. 47UF-M 16V
C442	0800051R	EL. 100UF-M 25V
C443	0800084F	EL. 1000UF-M 35V
C444	0276717R	PF. 0.1UF-J 50V (TF TYPE E)
C445	0276717R	PF. 0.1UF-J 50V (TF TYPE E)
C446	0258192F	EL. 2200UF 25V
C447	0258192F	EL. 2200UF 25V
C448	0800041R	EL. 47UF-M 16V
C449	0276717R	PF. 0.1UF-J 50V (TF TYPE E)
C450	0880018R	PF. 0.22UF-K 50V
C4501	0258616	EL. 2.2UF/50V (35TX79K)
C4502	0258616	EL. 2.2UF/50V (35TX79K)
C451	0800049R	EL. 100UF-M 16V
C452	0276717R	PF. 0.1UF-J 50V (TF TYPE E)
C457	0800015R	EL. 10UF-M 16V
C458	0800015R	EL. 10UF-M 16V
C459	0800015R	EL. 10UF-M 16V
C460	0800015R	EL. 10UF-M 16V
C501	0800001R	EL. 0.47UF-M 50V (SME)
C502	0244171R	CD. 0.01UF-Z F 50V TAPE
C503	0244171R	CD. 0.01UF-Z F 50V TAPE
C504	0800082F	EL. 1000UF-M 16V
C505	0890116R	CD. 15PF-J CH 50V
C507	0800003R	EL. 1.0UF-M 50V
C508	0800003R	EL. 1.0UF-M 50V
C509	0800003R	EL. 1.0UF-M 50V
C511	0244171R	CD. 0.01UF-Z F 50V TAPE
C512	0244171R	CD. 0.01UF-Z F 50V TAPE
C513	0244171R	CD. 0.01UF-Z F 50V TAPE
C515	0244171R	CD. 0.01UF-Z F 50V TAPE
C516	0244171R	CD. 0.01UF-Z F 50V TAPE
C519	0800015R	EL. 10UF-M 16V
C521	0244171R	CD. 0.01UF-Z F 50V TAPE
C525	0880044R	PF. 0.01UF-KEB 50V
C526	0800049R	EL. 100UF-M 16V
C527	0800075F	EL. 470UF-M 25V
C535	0800049R	EL. 100UF-M 16V (CZ56/CZ57)
C550	0800015R	EL. 10UF-M 16V (CZ56/CZ57)
C620	0800057R	EL. 220UF-M 10V
C621	0880042R	PF. 0.0068UF-KEB50V
C622	0292716R	TA. 1.0UF-K 20V
C623	0248696R	CD. 330PF-J SL 50V TAPE
C624	0800061N	EL. 220UF-M 35V
C625	0800007R	EL. 3.3UF-M 50V
C626	0276717R	PF. 0.1UF-J 50V (TF TYPE E)
C627	0800007R	EL. 3.3UF-M 50V
C628	0800003R	EL. 1.0UF-M 50V
C629	0800084F	EL. 1000UF-M 35V
C630	0276717R	PF. 0.1UF-J 50V (TF TYPE E)
C631	0890087R	CD. 1000PF-K 50V
C632	0800056R	EL. 220UF-M 6.3V
C633	0800015R	EL. 10UF-M 16V
C6H0	0800003R	EL. 1.0UF-M 50V
C6H1	0800005R	EL. 2.2UF-M 50V
C6H2	0800041R	EL. 47UF-M 16V
C6H3	0800018R	EL. 10UF-M 50V
C6H4	0276717R	PF. 0.1UF-J 50V (TF TYPE E)
C6H6	0800005R	EL. 2.2UF-M 50V
C710	0247842R	CD. 33PF-SL 500V
C711	0880044R	PF. 0.01UF-KEB 50V
C712	0244105R	CD. 2200PF-K 50V TAPE
C713	0880019R	PF. 0.33UF-KB 50V
⚠ C714	0244729	CD. 2200PF 2KV
⚠ C715	0244729	CD. 2200PF 2KV
⚠ C716	0244209	CD. 680PF-K 2KV (CY58)
⚠ C717	0244718	CD. 330PF-K 2.0KV B
⚠ C718	0262432F	PP. 15000PF-J 1800V
⚠ C719	0299932F	PP. 0.33UF-K 200V
⚠ C720	0299931F	PP. 0.27UF-K 200V
⚠ C721	0299707F	PF. 0.015UF-K 630V
⚠ C723	0263001	EL. 3.3UF-M 100V
C724	0244501R	CD. 1000PF-K 500V
C725	0800009R	EL. 4.7UF-M 25V
⚠ C726	0249392F	CD. 2200PF 125V
C727	0880035R	PF. 2200PF-50V
C728	0254823G	EL.100UF-M 160V
C730	0254509F	EL.1000UF-M 16V (CZ56/57/58)
C731	0243508R	CD. 390PF-K 500V (CZ56/57/58)
C732	0243506R	CD. 270PF-K 500V
C733	0800084F	EL. 1000UF-M 35V
C734	0244501R	CD. 1000PF-K 500V
C735	0800082F	EL. 1000UF-M 16V
⚠ C736	0800019R	EL. 10UF-M 63V
C737	0244501R	CD. 1000PF-K 500V
C738	0253974F	EL. 33UF 250V CE04W2E3
C739	0255507F	EL. 22UF-MB 160V(KME)
C740	0255524F	EL. 4.7MF-M 250V(KME)
C741	0276717R	PF. 0.1UF-J 50V (TF TYPE E)
C752	0800041R	EL. 47UF-M 16V
C753	0800048R	EL. 100UF-M 10V (CZ58/CY58)
⚠ C754	0800003R	EL. 1.0UF-M 50V
C755	0890086R	CD. 820PF-K 50V
C757	0800005R	EL. 2.2UF-M 50V
C758	0800015R	EL. 10UF-M 16V
C760	0276717R	PF. 0.1UF-J 50V (TF TYPE E)
C7H0	0800007R	EL. 3.3UF-M 50V
C7H1	0800044R	EL. 47UF-M 50V
C7H2	0284623R	EL. 1UF-SME(BP) 50V
C7H3	0800005R	EL. 2.2UF-M 50V
C851	0800049R	EL. 100UF-M 16V
C854	0890078R	CD. 220PF-K 50V
C856	0890079R	CD. 270PF-K 50V
C857	0890082R	CD. 390PF-K 50V
C859	0255524F	EL. 4.7MF-M 250V(KME)
C860	0244889	CD. 2200PF-K B 2KV
C866	0244171R	CD. 0.01UF-Z F 50V TAPE
C874	0890087R	CD. 1000PF-K 50V
C875	0890087R	CD. 1000PF-K 50V
C876	0890087R	CD. 1000PF-K 50V
C877	0890074R	CD. 100PF-J 50V
C878	0890074R	CD. 100PF-J 50V
C879	0890074R	CD. 100PF-J 50V
C880	0890086R	CD. 820PF-K 50V
C881	0890086R	CD. 820PF-K 50V
C882	0890086R	CD. 820PF-K 50V
⚠ C901	AN00144	PF. 0.1UF 250V
⚠ C903	0248593F	CD. 4700PF-Z 250V
⚠ C904	0248593F	CD. 4700PF-Z 250V
C905	0253891	EL. 470UF 200V HR (CZ58)
C905	0253890	EL. 820UF 200V HR
C906	0253891	EL. 470UF 200V HR (CZ58)
C906	AL00151	EL. 820UF 200V(USR)
C909	0249392F	CD. 2200PF 125V
C913	0244717F	CD. 270PF 2KV
C914	0880062R	PF. 0.22UF-KEB 50V
C915	0254823G	EL.100UF-M 160V
C916	0880036R	PF. 0.0027UF-KEB 50V
C917	0244230R	CD. 220PF-B 50V

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SYMBOL NO.	PART NO.	PART DESCRIPTION
⚠ C918	0800015R	EL. 10UF-M 16V (CZ58)
⚠ C918	0800056R	EL. 220UF-M 6.3V
C919	0244717F	CD. 270PF 2KV
C920	0800015R	EL. 10UF-M 16V (CZ58)
C920	0800049R	EL. 100UF-M 16V
C922	0890092R	CD. 2200PF-M 50V (CZ58)
C922	0800066R	EL. 330UF-M 16V
C923	0800074N	EL. 470UF-M 16V
C924	0880039R	PF. 0.0047UF-KEB 50V
C925	0253951R	EL. 0.47UF-M 160V
C926	0880056R	PF. 0.082UF-KEB 50V
C930	0800059R	EL. 220UF-M 25V
C932	0254522F	EL. 470UF 25V (CZ58)
C932	0254525F	EL. 3300UF-M 25V(KME) (CZ56/57/CY58)
C934	0243507R	CD. 330PF-K 500V TAPE
C936	0285224	EL. 2200UF-M 25V (CZ58)
C936	0800084F	EL. 1000UF-M 35V (CZ56/57/CY58)
C937	0800049R	EL. 100UF-M 16V
C938	0800003R	EL. 1.0UF-M 50V
C940	0800015R	EL. 10UF-M 16V
⚠ C942	0800003R	EL. 1.0UF-M 50V
C944	0800047R	EL. 100UF-M 6.3V
C952	0800015R	EL. 10UF-M 16V
⚠ C961	AN00144	PF. 0.1UF 250V
C962	0248593F	CD. 4700PF-Z 250V (CZ58)
C963	0248593F	CD. 4700PF-Z 250V (CZ58)
C964	0253891	EL. 470UF 200V HR (CZ58)
C965	0299622F	PF. 0.01UF-J 6 (CZ58)
C966	0800051R	EL. 100UF-M 25V (CZ58)
C967	0880057R	PF. 0.1UF-KEB 50V (CZ58)
C968	0880031R	PF.1000PF-K 50V (CZ58)
C969	0800024R	EL. 22UF-M 25V (CZ58)
C970	0880057R	PF. 0.1UF-KEB 50V (CZ58)
C971	0880044R	PF. 0.01UF-KEB 50V (CZ58)
C972	0244139R	CD. 1000PF-K B50V (CZ58)
C974	0285224	EL. 2200UF-M 25V (CZ58)
C976	0255011F	EL. 2200UF-M 35V (CZ58)
C976	0285221	EL. 1000UF-M 35V
C977	0800047R	EL. 100UF-M 6.3V (CZ58)
C978	0800047R	EL. 100UF-M 6.3V (CZ58)
C981	0800041R	EL. 47UF-M 16V (CZ58)
C982	0800041R	EL. 47UF-M 16V (CZ58)
C984	0800049R	EL. 100UF-M 16V (CZ58)
C985	0800032R	EL. 33UF-M 16V (CZ58)
C986	0800012R	EL. 4.7UF-M 50V (CZ58)
C987	0800012R	EL. 4.7UF-M 50V (CZ58)
C988	0880044R	PF. 0.01UF-KEB 50V (CZ58)
C991	0800084F	EL. 1000UF-M 35V (CZ56/57/CY58)
C9N1	0800018R	EL. 10UF-M 50V
C9N2	0800047R	EL. 100UF-M 6.3V
C9N3	0800018R	EL. 10UF-M 50V (CZ58)
C9N4	0880044R	PF. 0.01UF-KEB 50V
CA01	0800003R	EL. 1.0UF-M 50V
CA02	0800003R	EL. 1.0UF-M 50V
CA03	0800003R	EL. 1.0UF-M 50V
CA04	0800003R	EL. 1.0UF-M 50V
CA05	0800003R	EL. 1.0UF-M 50V
CA06	0800003R	EL. 1.0UF-M 50V
CA07	0800003R	EL. 1.0UF-M 50V
CA08	0800003R	EL. 1.0UF-M 50V
CA09	0800049R	EL. 100UF-M 16V
CA10	0800023R	EL. 22UF-M 16V
CA11	0800003R	EL. 1.0UF-M 50V
CA12	0800003R	EL. 1.0UF-M 50V
CA13	0800009R	EL. 4.7UF-M 25V
CA14	0284638R	EL. 10UF-SME(BP) 16V
CA15	0276717R	PF. 0.1UF-J 50V (TF TYPE E)
CA16	0880053R	PF. 0.047UF-KEB 50V
CA17	0800001R	EL. 0.47UF-M 50V (SME)
CA18	0276717R	PF. 0.1UF-J 50V (TF TYPE E)
CA19	0800003R	EL. 1.0UF-M 50V
CA20	0800003R	EL. 1.0UF-M 50V
CA21	0800003R	EL. 1.0UF-M 50V
CA22	0292712F	TA. 3.3UF-K 16V
CA23	0292714F	TA. 10UF-K 16V
CA24	0800003R	EL. 1.0UF-M 50V
CA25	0800003R	EL. 1.0UF-M 50V
CA26	0800015R	EL. 10UF-M 16V
CA27	0800015R	EL. 10UF-M 16V
CA28	0800015R	EL. 10UF-M 16V
CA29	0800015R	EL. 10UF-M 16V
CA30	0800015R	EL. 10UF-M 16V
CA31	0800015R	EL. 10UF-M 16V
CA32	0800015R	EL. 10UF-M 16V
CA33	0800015R	EL. 10UF-M 16V
CA34	0800015R	EL. 10UF-M 16V
CA35	0800015R	EL. 10UF-M 16V
CA36	0800015R	EL. 10UF-M 16V
CA37	0800015R	EL. 10UF-M 16V
CA38	0800041R	EL. 47UF-M 16V
CA39	0800041R	EL. 47UF-M 16V
CA40	0800015R	EL. 10UF-M 16V
CA41	0800015R	EL. 10UF-M 16V
CA70	0800041R	EL. 47UF-M 16V (CZ58/CZ57)
CA71	0800015R	EL. 10UF-M 16V (CZ58/CZ57)
CA72	0800015R	EL. 10UF-M 16V (CZ58/CZ57)
CC02	0244171R	CD. 0.01UF-Z F 50V TAPE
CC03	0890065R	CD. 22PF-J 50V
CC04	0244171R	CD. 0.01UF-Z F 50V TAPE
CC05	0244171R	CD. 0.01UF-Z F 50V TAPE
CC06	0800082F	EL. 1000UF-M 16V
CC07	0890068R	CD. 39PF-J 50V
CC70	0880044R	PF. 0.01UF-KEB 50V (CZ57/58/CY58)
CDF1	0299932F	PP. 0.33UF-K 200V (CZ56/57/58)
CDF2	0244211	CD. 1000PF-K 2KV (CZ56/57/58)
CDF3	0244212	CD. 1200PF-K 2KV (CZ56/57/58)
CF01	0890065R	CD. 22PF-J 50V
CF02	0244105R	CD. 2200PF-K 50V TAPE
CF03	0244105R	CD. 2200PF-K 50V TAPE
CF04	0244141R	CD. 0.01UF-KB B 50V
CF05	0890087R	CD. 1000PF-K 50V
CF06	0890078R	CD. 220PF-K 50V
CF07	0244141R	CD. 0.01UF-KB B 50V
CF09	0890076R	CD. 150PF-K 50V
CF10	0880015R	MYLAR 68K
CF11	0244141R	CD. 0.01UF-KB B 50V
CF12	0244141R	CD. 0.01UF-KB B 50V
CF13	0244105R	CD. 2200PF-K 50V TAPE
CF14	0890116R	CD. 15PF-J CH 50V
CF15	0246463R	CD. 91PF-J CH 50V
CF16	0800005R	EL. 2.2UF-M 50V
CF19	0880053R	PF. 0.047UF-KEB 50V
CF20	0244141R	CD. 0.01UF-KB B 50V
CF21	0890118R	CD. 22PF-J CH 50V
CF22	0800001R	EL. 0.47UF-M 50V (SME)
CF23	0890119R	CD. 27PF-J 50V
CF25	0880016R	PF. FILM 0.1UF 50V
CF26	0244141R	CD. 0.01UF-KB B 50V
CF31	0244141R	CD. 0.01UF-KB B 50V
CF35	0890065R	CD. 22PF-J 50V
CF50	0800041R	EL. 47UF-M 16V
CG01	0800009R	EL. 4.7UF-M 25V (CZ56/57/CY58)
CM01	0800023R	EL. 22UF-M 16V
CM02	0244171R	CD. 0.01UF-Z F 50V TAPE
CM03	0800003R	EL. 1.0UF-M 50V
CM04	0244171R	CD. 0.01UF-Z F 50V TAPE
CM05	0244171R	CD. 0.01UF-Z F 50V TAPE
CON3	0276717R	PF. 0.1UF-J 50V (TF TYPE E)
COSD	0890081R	CD. 330PF 50V
CP01	0800047R	EL. 100UF-M 6.3V
CP02	0800049R	EL. 100UF-M 16V
CP31	0890079R	CD. 270PF-K 50V
CP32	0246466R	CD. 120PF-J CH 50V CC45CH1H
CP33	0246464R	CD. 100PF-J CH 50V TAPE
CP34	0800047R	EL. 100UF-M 6.3V
CP35	0880044R	PF. 0.01UF-KEB 50V

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SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
CP36	0246466R	CD. 120PF-J CH 50V CC45CH1H	CS55	0246452R	CD. 33PF-J 50V
CP37	0890078R	CD. 220PF-K 50V	CS55	0246451R	CD. 30PF-JB CH 50V (CZ57P)
CS01	0880012R	MYLAR 0.022U 02 (CZ58)	CS56	0246452R	CD. 33PF-J 50V
CS02	0880014R	MYLAR 0.047U (CZ58)	CS56	0246451R	CD. 30PF-JB CH 50V (CZ57P)
CS03	0800058R	EL. 220UF-M 16V (CZ58)	CS58	0800015R	EL. 10UF-M 16V
CS04	0800015R	EL. 10UF-M 16V (CZ58)	CS58	0800049R	EL. 100UF-M 16V (CZ57P)
CS05	0800015R	EL. 10UF-M 16V (CZ58)	CS59	0800042R	EL. 47UF-M 25V
CS06	0800015R	EL. 10UF-M 16V (CZ58)	CS59	0800051R	EL. 100UF-M 25V (CZ57P)
CS07	0800015R	EL. 10UF-M 16V (CZ58)	CS60	0800003R	EL. 1.0UF-M 50V
CS08	0800087F	EL. 2200UF-M 16V	CS60	0800003R	EL. 1.0UF-M 50V (CZ57P)
CS09	0284623R	EL. 1UF-SME(BP) 50V (CZ58)	CS61	0800042R	EL. 47UF-M 25V
CS10	0284623R	EL. 1UF-SME(BP) 50V (CZ58)	CS61	0800042R	EL. 47UF-M 25V (CZ57P)
CS11	0276717R	PF. 0.1UF-J 50V (TF TYPE E) (CZ58)	CS62	0800051R	EL. 100UF-M 25V (CZ58)
CS12	0276717R	PF. 0.1UF-J 50V (TF TYPE E) (CZ58)	CS62	0800051R	EL. 100UF-M 25V (CZ57P)
CS13	0800001R	EL. 0.47UF-M 50V (SME) (CZ58)	CS63	0800042R	EL. 47UF-M 25V (CZ58)
CS14	0800009R	EL. 4.7UF-M 25V (CZ58)	CS64	0800003R	EL. 1.0UF-M 50V (CZ58)
CS15	0800001R	EL. 0.47UF-M 50V (SME) (CZ58)	CS65	0800003R	EL. 1.0UF-M 50V
CS16	0800009R	EL. 4.7UF-M 25V (CZ58)	CS65	0800003R	EL. 1.0UF-M 50V (CZ57P)
CS17	0880017R	PF. 0.15MF-M 50V (CZ58)	CS66	0800003R	EL. 1.0UF-M 50V
CS18	0800007R	EL. 3.3UF-M 50V (CZ58)	CS66	0800003R	EL. 1.0UF-M 50V (CZ57P)
CS19	0880017R	PF. 0.15MF-M 50V (CZ58)	CS67	0800003R	EL. 1.0UF-M 50V (CZ58)
CS20	0880017R	PF. 0.15MF-M 50V (CZ58)	CS68	0800003R	EL. 1.0UF-M 50V
CS21	0800007R	EL. 3.3UF-M 50V (CZ58)	CS68	0800003R	EL. 1.0UF-M 50V (CZ57P)
CS22	0880017R	PF. 0.15MF-M 50V (CZ58)	CS69	0800003R	EL. 1.0UF-M 50V
CS23	0800009R	EL. 4.7UF-M 25V (CZ58)	CS69	0800003R	EL. 1.0UF-M 50V (CZ57P)
CS24	0800001R	EL. 0.47UF-M 50V (SME) (CZ58)	CS70	0244105R	CD. 2200PF-K 50V TAPE
CS25	0800009R	EL. 4.7UF-M 25V (CZ58)	CS70	0244105R	CD. 2200PF-K 50V TAPE (CZ57P)
CS26	0800001R	EL. 0.47UF-M 50V (SME) (CZ58)	CS71	0244105R	CD. 2200PF-K 50V TAPE
CS27	0276717R	PF. 0.1UF-J 50V (TF TYPE E) (CZ58)	CS71	0244105R	CD. 2200PF-K 50V TAPE (CZ57P)
CS28	0276717R	PF. 0.1UF-J 50V (TF TYPE E) (CZ58)	CS72	0244105R	CD. 2200PF-K 50V TAPE (CZ58)
CS29	0800041R	EL. 47UF-M 16V (CZ58)	CS73	0800042R	EL. 47UF-M 25V
CS30	0276725R	EL. 0.47UF 50V (CZ58)	CS73	0800042R	EL. 47UF-M 25V (CZ57P)
CS31	0284638R	EL. 10UF-SME(BP) 16V (CZ58)	CS74	0800042R	EL. 47UF-M 25V
CS32	0276717R	PF. 0.1UF-J 50V (TF TYPE E)	CS74	0800042R	EL. 47UF-M 25V (CZ57P)
CS33	0800015R	EL. 10UF-M 16V (CZ58)	CS75	0800084F	EL. 1000UF-M 35V
CS34	0800015R	EL. 10UF-M 16V (CZ58)	CS75	0800084F	EL. 1000UF-M 35V (CZ57P)
CS35	0890085R	CD. 680PF-K 50V (CZ58)	CS76	0800051R	EL. 100UF-M 25V
CS36	0276717R	PF. 0.1UF-J 50V (TF TYPE E)	CS76	0800051R	EL. 100UF-M 25V (CZ57P)
CS36	0276717R	PF. 0.1UF-J 50V (TF TYP E) (CZ57P)	CS77	0880018R	PF. FILM 0.22UF-K 50V
CS37	0800074N	EL. 470UF-M 16V	CS77	0880018R	P.F 0.22UF-K 50V (CZ57P)
CS37	0800074N	EL. 470UF-M 16V (CZ57P)	CS78	0800003R	EL. 1.0UF-M 50V (CZ58)
CS38	0800005R	EL. 2.2UF-M 50V	CS78	0800003R	EL. 1.0UF-M 50V (CZ57P)
CS38	0800005R	EL. 2.2UF-M 50V (CZ57P)	CS79	0800015R	EL. 10UF-M 16V (CZ58)
CS39	0800058R	EL. 220UF-M 16V	CS79	0800015R	EL. 10UF-M 16V (CZ57P)
CS39	0800058R	EL. 220UF-M 16V (CZ57P)	CS80	0800015R	EL. 10UF-M 16V (CZ58)
CS40	0284623R	EL. 1UF-SME(BP) 50V	CS81	0800015R	EL. 10UF-M 16V
CS40	0284623R	EL. 1UF-SME(BP) 50V (CZ57P)	CS81	0800041R	EL. 47UF-M 16V (CZ57P)
CS41	0284623R	EL. 1UF-SME(BP) 50V	CS82	0276717R	PF. 0.1UF-J 50V (TF TYPE E) (CZ58)
CS41	0284623R	EL. 1UF-SME(BP) 50V (CZ57P)	CS83	0276717R	PF. 0.1UF-J 50V (TF TYPE E)
CS43	0800003R	EL. 1.0UF-M 50V	CS83	0276717R	PF. 0.1UF-J 50V (TF TYP E) (CZ57P)
CS43	0800003R	EL. 1.0UF-M 50V (CZ57P)	CS84	0276717R	PF. 0.1UF-J 50V (TF TYPE E)
CS44	0244171R	CD. 0.01UF-Z F 50V TAPE	CS84	0276717R	PF 0.1UF-J 50V (TF TYP E) (CZ57P)
CS44	0244171R	CD. 0.01UF-Z F 50V TAPE (CZ57P)	CS85	0800083F	EL. 1000UF-M 25V(CZ58)
CS45	0800015R	EL. 10UF-M 16V	CS86	0800083F	EL. 1000UF-M 25V
CS45	0800015R	EL. 10UF-M 16V (CZ57P)	CS86	0800083F	EL. 1000UF-M 25V(CZ57P)
CS46	0284638R	EL. 10UF-SME(BP) 16V	CS87	0800083F	EL. 1000UF-M 25V
CS46	0284638R	EL. 10UF-SME(BP) 16V (CZ57P)	CS87	0800083F	EL. 1000UF-M 25V (CZ57P)
CS47	0800058R	EL. 220UF-M 16V	CS88	0800015R	EL. 10UF-M 16V
CS47	0800058R	EL. 220UF-M 16V (CZ57P)	CS88	0800049R	EL. 100UF-M 16V (CZ57P)
CS48	0800015R	EL. 10UF-M 16V	CS89	0800015R	EL. 10UF-M 16V (CZ56/57/CY58)
CS48	0800015R	EL. 10UF-M 16V (CZ57P)	CS89	0800015R	EL. 10UF-M 16V(CZ57P)
CS49	0800015R	EL. 10UF-M 16V	CS90	0890087R	CD. 1000PF-K 50V
CS49	0800015R	EL. 10UF-M 16V (CZ57P)	CS90	0880015R	MYLAR 68K(CZ57P)
CS50	0800003R	EL. 1.0UF-M 50V	CS91	0284638R	EL. 10UF-SME(BP) 16V
CS50	0800003R	EL. 1.0UF-M 50V (CZ57P)	CS91	0800015R	EL. 10UF-M 16V (CZ57P)
CS51	0880051R	PF. 0.033UF-KEB 50V	CS92	0890087R	CD. 1000PF-K 50V
CS51	0880051R	PF. 0.033UF-KEB 50V (CZ57P)	CS92	0880015R	MYLAR 68K (CZ57P)
CS52	0880046R	PF. 0.015UF-K 50V	CS93	0880051R	PF. 0.033UF-KEB 50V
CS52	0890089R	CD 1500PF-K 50V (CZ57P)	CS93	0284638R	EL. 10UF-SME(BP) 16V (CZ57P)
CS53	0880051R	PF. 0.033UF-KEB 50V	CS94	0880041R	PF. 0.0056UF-KEB50V
CS53	0880051R	PF. 0.033UF-KEB 50V (CZ57P)	CS94	0800041R	EL. 47UF-M 16V (CZ57P)
CS54	0800058R	EL. 220UF-M 16V	CS95	0880041R	PF. 0.0056UF-KEB50V
CS54	0800058R	EL. 220UF-M 16V (CZ57P)	CS95	0284638R	EL. 10UF-SME(BP) 16V (CZ57P)

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SYMBOL NO.	PART NO.	PART DESCRIPTION
CS96	0880051R	PF. 0.033UF-KEB 50V
CS96	0800015R	EL. 10UF-M 16V (CZ57P)
CS97	0800015R	EL. 10UF-M 16V
CS97	0800049R	EL. 100UF-M 16V (CZ57P)
CS98	0800049R	EL. 100UF-M 16V
CS98	0800015R	EL. 10UF-M 16V (CZ57P)
CS99	0800015R	EL. 10UF-M 16V
CS99	0284623R	EL. 1UF-SME(BP) 50V (CZ57P)
CSA1	0800049R	EL. 100UF-M 16V (CZ58)
CSA2	0276717R	PF. 0.1UF-J 50V (TF TYPE E) (CZ58)
CSA3	0276717R	PF. 0.1UF-J 50V (TF TYPE E)
CSA3	0276717R	PF. 0.1UF-J 50V (TF TYP E) (CZ57P)
CSA4	0284638R	EL. 10UF-SME(BP) 16V
CSA5	0284638R	EL. 10UF-SME(BP) 16V (CZ58)
CSA6	0284638R	EL. 10UF-SME(BP) 16V (CZ58)
CSA7	0800042R	EL. 47UF-M 25V
CSA7	0800042R	EL. 47UF-M 25V (CZ57P)
CSC1	0284638R	EL. 10UF-SME(BP) 16V (CZ57P)
CSC2	0284638R	EL. 10UF-SME(BP) 16V (CZ57P)
CSC3	0284638R	EL. 10UF-SME(BP) 16V (CZ57P)
CSC4	0800074N	EL. 470UF-M 16V (CZ57P)
CSC5	0880044R	PF. 0.01UF-KEB 50V (CZ57P)
CSC6	0800105R	EL. 0.33UF-M 50V (CZ57P)
CSC7	0284638R	EL. 10UF-SME(BP) 16V (CZ57P)
CSC8	0800041R	EL. 47UF-M 16V (CZ57P)
CSC9	0800003R	EL. 1.0UF-M 50V (CZ57P)
CSE1	0284638R	EL. 10UF-SME(BP) 16V (CZ57P)
CSE2	0284638R	EL. 10UF-SME(BP) 16V (CZ57P)
CSE3	0880044R	PF. 0.01UF-KEB 50V (CZ57P)
CSE4	0800105R	EL. 0.33UF-M 50V (CZ57P)
CSE5	0284638R	EL. 10UF-SME(BP) 16V (CZ57P)
CSE6	0800048R	EL. 100UF-M 10V (CZ57P)
CSE7	0284638R	EL. 10UF-SME(BP) 16V (CZ57P)
CSE8	0284638R	EL. 10UF-SME(BP) 16V (CZ57P)
CSE9	0800015R	EL. 10UF-M 16V (CZ57P)
CSF1	0284638R	EL. 10UF-SME(BP) 16V (CZ57P)
CSF2	0800023R	EL. 22UF-M 16V (CZ57P)
CSF3	0800009R	EL. 4.7UF-M 25V (CZ57P)
CSF4	0284638R	EL. 10UF-SME(BP) 16V (CZ57P)
CSF5	0800015R	EL. 10UF-M 16V (CZ57P)
CSF6	0284638R	EL. 10UF-SME(BP) 16V (CZ57P)
CSF7	0800023R	EL. 22UF-M 16V (CZ57P)
CSF8	0800009R	EL. 4.7UF-M 25V (CZ57P)
CSF9	0284638R	EL. 10UF-SME(BP) 16V (CZ57P)
CSG1	0800015R	EL. 10UF-M 16V (CZ57P)
CSG2	0284638R	EL. 10UF-SME(BP) 16V (CZ57P)
CSG3	0800023R	EL. 22UF-M 16V (CZ57P)
CSG4	0800009R	EL. 4.7UF-M 25V (CZ57P)
CSG5	0284638R	EL. 10UF-SME(BP) 16V (CZ57P)
CSG6	0284638R	EL. 10UF-SME(BP) 16V (CZ57P)
CSG7	0284638R	EL. 10UF-SME(BP) 16V(CZ57P)
CSG8	0800074N	EL. 470UF-M 16V (CZ57P)
CSG9	0880044R	PF. 0.01UF-KEB 50V (CZ57P)
CSH1	0800105R	EL. 0.33UF-M 50V (CZ57P)
CSH2	0284638R	EL. 10UF-SME(BP) 16V (CZ57P)
CSH3	0800041R	EL. 47UF-M 16V (CZ57P)
CSH4	0800003R	EL. 1.0UF-M 50V (CZ57P)
CSH6	0284638R	EL. 10UF-SME(BP) 16V (CZ57P)
CSH7	0880044R	PF. 0.01UF-KEB 50V (CZ57P)
CSH8	0800105R	EL. 0.33UF-M 50V (CZ57P)
CSH9	0284638R	EL. 10UF-SME(BP) 16V(CZ57P)
CSJ1	0800048R	EL. 100UF-M 10V (CZ57P)
CSJ2	0800041R	EL. 47UF-M 16V (CZ57P)
CSJ3	0800041R	EL. 47UF-M 16V (CZ57P)
CSJ5	0800015R	EL. 10UF-M 16V (CZ57P)
CSJ6	0800015R	EL. 10UF-M 16V (CZ57P)
CSJ7	0800015R	EL. 10UF-M 16V (CZ57P)
CSJ8	0800015R	EL. 10UF-M 16V (CZ57P)
CSJ9	0800015R	EL. 10UF-M 16V (CZ57P)
CSK1	0800015R	EL. 10UF-M 16V (CZ57P)
CSN1	0800047R	EL. 100UF-M 6.3V
CSN1	0800047R	EL. 100UF-M 6.3V (CZ57P)
CSN2	0880044R	PF. 0.01UF-KEB 50V
CSN2	0880044R	PF. 0.01UF-KEB 50V (CZ57P)
CSN3	0800018R	EL. 10UF-M 50V (CZ58)
CSN4	0800018R	EL. 10UF-M 50V
CT01	0276717R	PF. 0.1UF-J 50V (TF TYPE E)(CZ58)
CT01	0800015R	EL. 10UF-M 16V (CZ56/57/CY58)
CT02	0800015R	EL. 10UF-M 16V (CZ56/57/CY58)
CT03	0800039R	EL. 47UF-M 10V (CZ56/57/CY58)
CT04	0800015R	EL. 10UF-M 16V (CZ56/57/CY58)
CT05	0800058R	EL. 220UF-M 16V (CZ56/57/CY58)
CV01	0284621R	EL. 0.47UF 50V (BP)
CV04	0890081R	CD. 330PF 50V
CV05	0800049R	EL. 100UF-M 16V
CV06	0880044R	PF. 0.01UF-KEB 50V
CV09	0890074R	CD. 100PF-J 50V
CV10	0244541F	CD. 0.01MF-K B 500V
CV11	0890074R	CD. 100PF-J 50V
CV12	0244509R	CD. 4700PF-KB B 500V
CV13	0253959F	EL. 47UF-M 160V
CV14	0253959F	EL. 47UF-M 160V
CV15	0253957F	EL. 22UF-M 160V
CV16	0247848R	CD. 56PF-J SL 500V
CV17	0800075F	EL. 470UF-M 25V
CV18	0800042R	EL. 47UF-M 25V
CV19	0253959F	EL. 47UF-M 160V
CV20	0244541F	CD. 0.01MF-K B 500V
CV21	0244171R	CD. 0.01UF-Z F 50V TAPE
CV22	0880057R	PF. 0.1UF-KEB 50V
CV23	0800049R	EL. 100UF-M 16V
CV24	0800041R	EL. 47UF-M 16V
CV28	0890077R	CD. 180PF-K 50V
CX01	0800015R	EL. 10UF-M 16V (CZ58/CY58)
CX01	0800041R	EL. 47UF-M 16V (CZ58/CY58)
CX02	0890065R	CD. 22PF-J 50V (CZ58/CY58)
CX03	0890061R	CD. 10PF-J 50V (CZ58/CY58)
CX04	0890064R	CD. 18PF-J SL 50V (CZ58/CY58)
CX05	0800049R	EL. 100UF-M 16V (CZ58/CY58)
CX06	0800009R	EL. 4.7UF-M 25V (CZ58/CY58)
CX07	0880031R	PF. 1000PF-K 50V (CZ58/CY58)
CX08	0890071R	CD. 56PF-J 50V (CZ58/CY58)
CX09	0880044R	PF. 0.01UF-KEB 50V (CZ58/CY58)
CX10	0800005R	EL. 2.2UF-M 50V (CZ58/CY58)
CX11	0800009R	EL. 4.7UF-M 25V (CZ58/CY58)
CX12	0244171R	CD. 0.01UF-Z F 50V TAPE (CZ58/CY58)
CX13	0246443R	CD. 13PF (C) 50WV (CZ58/CY58)
CX14	0880044R	PF. 0.01UF-KEB 50V (CZ58/CY58)
CX15	0284621R	EL. 0.47UF 50V (BP) (CZ58/CY58)
CX16	0890089R	CD. 1500PF-K 50V (CZ58/CY58)
CX17	0890082R	CD. 390PF-K 50V (CZ58/CY58)
CX18	0890074R	CD. 100PF-J 50V (CZ58/CY58)
CX19	0890087R	CD. 1000PF-K 50V (CZ58/CY58)
CX20	0800009R	EL. 4.7UF-M 25V (CZ58/CY58)
CX21	0890109R	CCT6R0D50D3 (CZ58/CY58)
CX22	0244171R	CD. 0.01UF-Z F 50V TAPE (CZ58/CY58)
CX23	0800048R	EL. 100UF-M 10V (CZ58/CY58)
CX24	0244171R	CD. 0.01UF-Z F 50V TAPE (CZ58/CY58)
CX25	0244171R	CD. 0.01UF-Z F 50V TAPE (CZ58/CY58)
CX26	0244171R	CD. 0.01UF-Z F 50V TAPE (CZ58/CY58)
CX27	0800001R	EL. 0.47UF-M 50V (SME) (CZ58/CY58)
CX27	0800009R	EL. 4.7UF-M 25V (CZ58/CY58)
CX28	0244171R	CD. 0.01UF-Z F 50V TAPE (CZ58/CY58)
CX29	0800009R	EL. 4.7UF-M 25V
CX29	0880053R	PF. 0.047UF-KEB 50V (CZ58/CY58)
CX30	0244171R	CD. 0.01UF-Z F 50V TAPE (CZ58/CY58)
CX31	0248690R	CD. 180PF-J SL 50V (CZ58/CY58)
CX32	0880044R	PF. 0.01UF-KEB 50V (CZ58/CY58)
CX33	0244171R	CD. 0.01UF-Z F 50V TAPE (CZ58/CY58)
CX34	0800048R	EL. 100UF-M 10V (CZ58/CY58)
CX35	0880044R	PF. 0.01UF-KEB 50V (CZ58/CY58)
CX36	0800048R	EL. 100UF-M 10V (CZ58/CY58)
CX37	0244171R	CD. 0.01UF-Z F 50V TAPE (CZ58/CY58)
CX38	0244171R	CD. 0.01UF-Z F 50V TAPE (CZ58/CY58)
CX39	0244171R	CD. 0.01UF-Z F 50V TAPE (CZ58/CY58)
CX40	0244171R	CD. 0.01UF-Z F 50V TAPE (CZ58/CY58)

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SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
CX41	0244171R	CD. 0.01UF-Z F 50V TAPE (CZ58/CY58)	D401	2339491M	DI. AM01Z (200 TAPE) 1A
CX42	0800048R	EL. 100UF-M 10V (CZ58/CY58)	D402	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC
CX45	0800015R	EL. 10UF-M 16V (CZ58/CY58)	D402	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC(CZ57P)
CX46	0800049R	EL. 100UF-M 16V (CZ58/CY58)	D403	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC
CX47	0800049R	EL. 100UF-M 16V (CZ58/CY58)	D403	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC(CZ57P)
CX48	0880044R	PF. 0.01UF-KEB 50V (CZ58/CY58)	D404	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC
CX49	0800049R	EL. 100UF-M 16V (CZ58/CY58)	D405	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC
CX50	0800048R	EL. 100UF-M 10V (CZ58/CY58)	D406	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC
CX52	0800048R	EL. 100UF-M 10V (CZ58/CY58)	D407	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC
CXO7	0880031R	PF. 1000PF-K 50V (CZ58/CY58)	D408	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC
CY01	0800023R	EL. 22UF-M 16V	D409	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC
CY04	0800023R	EL. 22UF-M 16V	D410	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC
CY05	0800023R	EL. 22UF-M 16V	D411	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC
CY06	0800023R	EL. 22UF-M 16V	D501	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC
CY07	0800023R	EL. 22UF-M 16V	D502	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC
CY08	0800049R	EL.100UF-M 16V	D503	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC
CY09	0276717R	PF. 0.1UF-J 50V (TF TYPE E)	D504	2339839M	ZD. HZS5C3 TAPE
CY14	0800074N	EL. 470UF-M 16V	D505	2339868M	ZD. HZS9C2 TAPE
CY17	0800041R	EL. 47UF-M 16V	D506	2339868M	ZD. HZS9C2 TAPE
CY70	0800015R	EL. 10UF-M 16V (CZ57/58/CY58)	D507	2339868M	ZD. HZS9C2 TAPE
CY71	0800015R	EL. 10UF-M 16V (CZ57/58/CY58)	D508	2339868M	ZD. HZS9C2 TAPE
CY72	0244171R	CD. 0.01UF-Z F 50V TAPE (CZ58/CZ57)	D509	2339846M	ZD. HZS6B3 TA
CY79	0800049R	EL. 100UF-M 16V (CZ58/CZ57)	D510	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC
			D620	2339862M	ZD. HZS-9A2 TA
		DIODES	D621	2339491M	DI. AM01Z (200 TAPE) 1A
			D622	2339491M	DI. AM01Z (200 TAPE) 1A
D002	2339889M	ZD. HZS12 (C3) 0.005A	D623	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC
D003	2339889M	ZD. HZS12 (C3) 0.005A	D624	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC
D004	2339889M	ZD. HZS12 (C3) 0.005A	D6H0	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC
D005	2339889M	ZD. HZS12 (C3) 0.005A	D6H1	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC
D006	2339889M	ZD. HZS12 (C3) 0.005A	D6H2	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC
D008	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC	⚠ D710	2348511	DI. RS3FS
D009	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC	⚠ D711	2348511	DI. RS3FS
D010	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC	⚠ D712	2336612M	DI. RU3AM TA
D011	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC	D720	2338944	DI. FML-G12S (F) (200V) SI 0.04U (CZ56/57/58)
D013	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC	D721	CH00031M	DI. AU02V1 (280V)
D014	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC	D722	2338944	DI. FML-G12S (F) (200V) SI 0.04U
D015	2339885M	ZD. HZS12B2 TA	⚠ D723	2339481M	DI. AS01Z (200 TAPE) SI 0.6A
D016	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC	D724	CH00031M	DI. AU02V1 (280V)
D019	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC(CZ58)	D725	CH00031M	DI. AU02V1 (280V)
D022	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC	D726	CH00031M	DI. AU02V1 (280V)
D025	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC	D731	2339491M	DI. AM01Z (200 TAPE) 1A
D026	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC	D732	2339491M	DI. AM01Z (200 TAPE) 1A
D027	2339838M	ZD. HZS-5C2 TAPE	⚠ D734	2339242M	ZD. HZS33L2 TAPE
D032	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC	⚠ D735	2339223M	ZD. HZS27 (3L)
D040	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC	D736	2339868M	ZD. HZS9C2 TAPE
D041	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC	D737	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC
D0501	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC(CZ56)	D738	2339251M	ZD. HZS36-1L TAPE
D0502	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC(CZ56)	D739	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC
D101	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC	D740	2339851M	ZD. HZS7A1 TAPE (SI.200MA)
D10S	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC (CZ58)	D741	2339834M	ZD. HZS5(B1) TAPE (CZ58/CY58)
D11S	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC (CZ58)	D742	2337341M	DI. 1SS270A (TP)
D12S	2339481M	DI. AS01Z (200 TAPE) SI 0.6A (CZ58)	D743	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC
D133	2339849M	ZD. HZS6C3 TA	D744	2339889M	ZD. HZS12 (C3) 0.005A
D134	2339241M	ZD. DI. HZS-33 (1L) TA SI 33V	D7H0	2339981M	ZD. HZS36-1 TA
D135	2339889M	ZD. HZS12 (C3) 0.005A (CZ58)	D7H1	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC
D13S	2339481M	DI. AS01Z (200 TAPE) SI 0.6A (CZ58)	D7H2	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC
D14S	2339481M	DI. AS01Z (200 TAPE) SI 0.6A (CZ58)	D7H3	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC
D302	2339855M	ZD. DI. HZS-7 (B2) TAPE SI 7V	D801	2339821M	ZD. HZS4A1 TA
D303	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC	D804	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC
D304	2398611M	DI. 1SS254 TAPE (35V)SI 4NSEC(CZ56/57/CY58)	D805	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC
D305	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC	D806	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC
D306	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC	D820	2339601M	ZD. HZS-2 TAPE (ALL) SI 400M
D307	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC	D821	2339601M	ZD. HZS-2 TAPE (ALL) SI 400M
D308	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC	D822	2339601M	ZD. HZS-2 TAPE (ALL) SI 400M
D309	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC	D823	2339868M	ZD. HZS9C2 TAPE
D310	2339839M	ZD. HZS5C3 TAPE	D825	2339868M	ZD. HZS9C2 TAPE
D311	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC	D826	2339868M	ZD. HZS9C2 TAPE
D312	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC	D855	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC
D313	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC	D856	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC
D316	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC	D857	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC
D319	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC	D858	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC
D320	2334324M	ZD. DI. RD36E TAPE (B3) SI 500MW	⚠ D901	2342062	DI. D3SBA60-4103

PRODUCT SAFETY NOTE: Components marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully, the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
D908	2349571M	DI. SM-1XP2TP	DS19	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC (CZ58)
D909	2336612	DI. RU3AM SI 1.5A	DS20	2339839M	ZD. HZS5C3 TAPE (CZ57P)
D910	2338944	DI. FML-G12S (F) (200V) SI 0.04U	DS28	2339868M	ZD. HZS9C2 TAPE
D915	2349571M	DI. SM-1XP2TP	DS29	2339868M	ZD. HZS9C2 TAPE
D919	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC	DS30	2339868M	ZD. HZS9C2 TAPE
D935	2339491M	DI. AM01Z (200 TAPE) 1A	DS31	2339839M	ZD. HZS5C3 TAPE
D951	2339052M	ZD. HZS7 (B2 L TP)	DS40	2339868M	ZD. HZS9C2 TAPE
D955	2339092M	DI. HZS9C2L (CZ58)	DS41	2339868M	ZD. HZS9C2 TAPE
D956	2339092M	DI. HZS9C2L (CZ58)	DS51	2339868M	ZD. HZS9C2 TAPE (CZ58)
D957	2339092M	DI. HZS9C2L (CZ58)	DS52	2339868M	ZD. HZS9C2 TAPE (CZ58)
D961	2332794	DI. RB-156 (LFB) SI 1.5A (CZ58)	DS53	2339868M	ZD. HZS9C2 TAPE (CZ58)
D962	2339252M	ZD. HZS36-2L TAPE (CZ58)	DS54	2339868M	ZD. HZS9C2 TAPE (CZ58)
D963	2339252M	ZD. HZS36-2L TAPE (CZ58)	DT01	2339491M	DI. AM01Z (200 TAPE) 1A
D964	2339491M	DI. AM01Z (200 TAPE) 1A (CZ58)	DV01	2339491M	DI. AM01Z (200 TAPE) 1A
D965	2339942M	ZD. HZS24-2TA (CZ58)	DV02	2339491M	DI. AM01Z (200 TAPE) 1A
D966	2339491M	DI. AM01Z (200 TAPE) 1A (CZ58)	DV03	2339491M	DI. AM01Z (200 TAPE) 1A
D967	2338531M	DI. EG-01C (V) SI 0.5A (CZ58)	DV04	2339491M	DI. AM01Z (200 TAPE) 1A
D968	2349571M	DI. SM-1XP2TP (CZ58)	DV05	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC
D975	2338944	DI. FML-G12S (F) (200V) SI 0.04U (CZ58)	DV06	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC
D976	2338944	DI. FML-G12S (F) (200V) SI 0.04U (CZ58)	DV07	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC
D985	2337341M	DI. 1SS270A (TP) (CZ58)	DVM1	2339868M	ZD. HZS9C2 TAPE
D991	2348392	DI. SINB10 (CZ56/57/CY58)	DX01	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC (CZ58/CY58)
D9N1	2339092M	DI. HZS9C2L (CZ58)	DY02	2339889M	ZD. HZS12 (C3) 0.005A (CZ56/57/58)
D9N2	2339092M	DI. HZS9C2L (CZ58)	DY03	2339889M	ZD. HZS12 (C3) 0.005A (CZ56/57/58)
D9N3	2339092M	DI. HZS9C2L (CZ58)	DY04	2339889M	ZD. HZS12 (C3) 0.005A (CZ56/57/58)
DA01	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC	DY71	2339889M	ZD. HZS12 (C3) 0.005A (CZ58/CZ57)
DA03	2339812M	ZD. HZS3A2 TA (SI.200MA)	ZD0501	2339885M	ZD. HZS12B2 TA (CZ56)
DA04	2339812M	ZD. HZS3A2 TA (SI.200MA)	ZD0502	2339885M	ZD. HZS12B2 TA (CZ56)
DA05	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC	ZD3801	2331154M	ZD. HZ-12 (A1-3 B1-3.TA) SI 200MA (CZ56)
DA07	2339812M	ZD. HZS3A2 TA (SI.200MA)	ZD3802	2331154M	ZD. HZ-12 (A1-3 B1-3.TA) SI 200MA (CZ56)
DA08	2339812M	ZD. HZS3A2 TA (SI.200MA)			
DA09	2339889M	ZD. HZS12 (C3) 0.005A (CZ56/57/58)			**REMOTE CONTROLS**
DA10	2339889M	ZD. HZS12 (C3) 0.005A (CZ56/57/58)			
DA70	2339889M	ZD. HZS12 (C3) 0.005A (CZ58/CZ57)	E301	HL00211	REMOTE CONTROL UNIT CLU-951MP (35UX80B)
DA71	2339889M	ZD. HZS12 (C3) 0.005A (CZ58/CZ57)	E301	HL00211	REMOTE CONTROL UNIT CLU-951MP (35TX79K)
DC01	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC	E301	HL00211	REMOTE CONTROL UNIT CLU-951MP (32UX8B)
DC02	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC	E301	HL00224	REMOTE CONTROL UNIT CLU-415UI (35UX70B)
DC03	2339889M	ZD. HZS12 (C3) 0.005A (CZ56/57/58)			
DG01	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC (CZ56/57/CY58)			**DEFLECTION YOKE**
DM01	2398611M	DI. 1SS254 TAPE S 4NSEC(CZ57/58/CY58)			
DM02	2398611M	DI. 1SS254 TAPE SI 4NSEC(CZ57/58/CY58)	⚠ E601	BY00511	DEFLECTION YOKE MURATA(32V)
DP01	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC			
DP04	2339885M	ZD. HZS12B2 TA			**FUSES**
DP19	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC			
DS01	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC	⚠ F601	2722382	FUSE-DC0.75A-J/UL(L)
DS01	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC (CZ57P)	⚠ F701	2722385	FUSE DC2A
DS02	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC	⚠ F901	2722359	FUSE AC06A
DS02	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC (CZ57P)	⚠ F902	2722355	FUSE-AC2.5A-JP
DS03	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC			
DS03	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC (CZ57P)			**SPARK GAP/SURGE PROTECTOR**
DS04	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC (CZ58)			
DS05	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC	G801	2340037	SPARK GAP
DS06	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC	G901	2340741	SURGE PROTECTOR DSP-301N-S00B
DS06	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC (CZ57P)			
DS07	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC (CZ58)			**FILTERS**
DS08	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC			
DS08	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC (CZ57P)	CP0501	2574762	R/C MODULE SPS-409-1K(CZ56)
DS09	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC	H001	2791754R	CONDENSER WITH 3 TERMINAL 100PF
DS09	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC (CZ57P)	H002	2791754R	CONDENSER WITH 3 TERMINAL 100PF
DS10	2339839M	ZD. HZS5C3 TAPE (CZ57P)	H003	2791754R	CONDENSER WITH 3 TERMINAL 100PF
DS11	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC	H004	2791754R	CONDENSER WITH 3 TERMINAL 100PF
DS11	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC (CZ57P)	H005	2791754R	CONDENSER WITH 3 TERMINAL 100PF
DS12	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC (CZ58)	H006	2791754R	CONDENSER WITH 3 TERMINAL 100PF
DS13	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC (CZ58)	H008	2791754R	CONDENSER WITH 3 TERMINAL 100PF
DS13	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC (CZ57P)	⚠ H901	2793313	CP-EXN-G131P365L
DS14	2339839M	ZD. HZS5C3 TAPE (CZ57P)	HF01	2300361	SAW FILTER HW3461
DS15	2339491M	DI. AM01Z (200 TAPE) 1A	HF02	2167311	FILTER CERAMIC (4.5MHZ)
DS16	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC	HF03	2143492	TRAP CERAMIC (4.5MHZ)
DS16	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC(CZ57P)	HG01	2791754R	CONDENSER WITH 3 TER. 100PF (CZ56/57/CY58)
DS17	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC	HM01	2574762	R/C MODULE SPS-409-1K (CZ57/58/CY58)
DS17	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC (CZ57P)			
DS18	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC			
DS18	2398611M	DI. 1SS254 TAPE (35V) SI 4NSEC (CZ57P)			

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SYMBOL NO.	PART NO.	PART DESCRIPTION
		INTEGRATED CIRCUITS
I001	CP01194	MN1874862HHP
I002	2366301	IC. UPD4052BC
I003	CP00822	DIGITAL MONOLITHIC IC M6M80042P
I004	2000541	IC. M51951BSL
I401	2020001	IC. TDA9860
I402	2004751	IC. TA8200AH
I403	2362602	IC. UPC4558
I404	2362602	IC. UPC4558
I501	2020324	ANALOG MONOLITHIC IC (YAT016H)
⚠ I620	2003541	IC. LA7838
I6H0	2362601	IC. HA17458PS
I701	2003421	IC. UPC7805AHF (CZ58/CY58)
I702	2020507	IC. AN7812F
⚠ I7H0	2000521	IC. PC713F6
⚠ I901	2020392	IC. TDA4605-3
⚠ I902	2369711	IC. TLP541G
I931	2020506	IC. AN7810F
I961	CP01141	FA5304 (CZ58)
I962	2000465	IC. PS2501-1 (KC/LC) (CZ58)
I981	CP01151	BA6161N (CZ58)
IA01	CP00811	ANALOG MONOLITHIC IC UPC1852
IA02	2366301	IC. UPD4052BC
IF01	2004171	IC. LA7577
IP31	2381772	IC. TC74HC221AP
IS01	CP00801U	LA2785 (CZ58)
IS02	CP00791U	LV1010N
IS02	CP00791U	LV1010N (CZ57P)
IS03	2362602	IC. UPC4558
IS03	2362602	IC. UPC4558 (CZ57P)
IS04	2362602	IC. UPC4558 (CZ58)
⚠ IS05	2004681	IC. TA8218AH
⚠ IS05	2004681	IC. TA8218AH (CZ57P)
IS06	2020001	IC. TDA9860
IS06	2362602	IC. UPC4558 (CZ57P)
IS08	2362651	IC. HD14053B (CZ58)
IS08	2362602	IC. UPC4558 (CZ57P)
IS09	2004362	IC. CXA1279AS (CZ57P)
IS10	CP00871U	DIGITAL MONOLITHIC IC (M62393P) (CZ57P)
IS11	2000361	IC. M51132L (CZ57P)
IS12	2362651	IC. HD14053B (CZ57P)
IS13	2000361	IC. M51132L (CZ57P)
IS14	2000361	IC. M51132L (CZ57P)
IS15	2004362	IC. CXA1279AS (CZ57P)
IS16	CP00871U	DIGITAL MONOLITHIC IC (M62393P) (CZ57P)
⚠ IT01	2000465	IC. PS2501-1 (KC/LC)
IX01	CP01081U	DIGITAL MONOLITHIC IC (TC9089AN) (CZ58/CY58)
IX02	CP00121U	ANALOG MONOLITHIC IC (MM1093N) (CZ58/CY58)
IY01	2020452	ANALOG MONOLITHIC IC (CXA1545AS)
		INDUCTORS/COILS
L001	2123781R	FILTER COIL 101K
L003	2123763R	RADIAL COIL 101K (TYPE EL0405)
L004	2123781R	FILTER COIL 101K (CZ58)
L005	2123781R	FILTER COIL 101K
L006	2123781R	FILTER COIL 101K
L009	2123763R	RADIAL COIL 101K (TYPE EL0405)
L10S	2123781R	FILTER COIL 101K (CZ58)
L301	2146092	COIL-TRAP (3.58MHZ) VL-5R8C0L (CZ56/57/CY58)
L302	2123763R	RADIAL COIL 101K (TYPE EL0405)
L303	2123763R	RADIAL COIL 101K (TYPE EL0405)
L304	2123781R	FILTER COIL 101K
L3N1	2122948M	COIL-AXIAL 27UHKM BELTING
L3N2	2122951M	COIL-AXIAL 39UHKM BELTING
L401	2123763R	RADIAL COIL 101K (TYPE EL0405)
L402	2122652M	FERRITE CORE
L403	2122652M	FERRITE CORE
L404	2122652M	FERRITE CORE
L405	2123781R	FILTER COIL 101K
L502	2123763R	RADIAL COIL 101K (TYPE EL0405) (CZ56/CZ57)
L610	2122099	FIXED INDUCTOR-FL-11Z 180K
L710	2122652M	FERRITE CORE
L711	2771893	FERRITE BEADS CORE (005)
L712	2122652M	FERRITE CORE
⚠ L713	2275381	COIL-CHOKING 1000UH
L714	2124513	COIL-H.LINEARITY M1LXU1
L720	2122213	FIXED COIL FL-11Z 30UH-K
⚠ L721	2122244M	COIL-AXIAL 22UH-K
L722	2122253M	COIL-AXIAL 100UH-K
L723	2122652M	FERRITE CORE
L851	2122245M	COIL-AXIAL 27UH-K
L852	2122245M	COIL-AXIAL 27UH-K
L853	2122245M	COIL-AXIAL 27UH-K
L854	2122253M	COIL-AXIAL 100UH-K
L855	2122253M	COIL-AXIAL 100UH-K
L856	2122253M	COIL-AXIAL 100UH-K
L857	2123468M	FERRITE BEADS CORE LEAD 0.8MH
L858	2123468M	FERRITE BEADS CORE LEAD 0.8MH
L859	2123468M	FERRITE BEADS CORE LEAD 0.8MH
L860	2123468M	FERRITE BEADS CORE LEAD 0.8MH
L861	2123468M	FERRITE BEADS CORE LEAD 0.8MH
L862	2123468M	FERRITE BEADS CORE LEAD 0.8MH
L863	2123468M	FERRITE BEADS CORE LEAD 0.8MH
⚠ L901	2169462	LINE FILTER COIL FX-7355-60
⚠ L902	2169462	LINE FILTER COIL FX-7355-60
L904	2774631R	FERRITE BEADS LEAD
L904	2123461M	FERRITE BEADS B 0.8 MH (32V)
L905	2774631R	FERRITE BEADS LEAD
L905	2229022	DEGAUSSING COIL (32V)
L906	2123461M	FERRITE BEADS B 0.8 MH
L908	2123461M	FERRITE BEADS B 0.8 MH
L909	2774631R	FERRITE BEADS LEAD
L909	2123461M	FERRITE BEADS B 0.8 MH (32V)
L931	2122253M	COIL-AXIAL 100UH-K
L932	2774631R	FERRITE BEADS LEAD
L935	2220577	COIL HLL-10UH KRL TSL0707
L965	2774631R	FERRITE BEADS LEAD (CZ58)
L966	2774631	FERRITE BEADS LEAD (CZ58)
L967	2774631R	FERRITE BEADS LEAD (CZ58)
L968	2774631R	FERRITE BEADS LEAD (CZ58)
L970	2229023	DEGAUSSING COIL (35V)
L975	2774631R	FERRITE BEADS LEAD (CZ58)
L976	2220585	COIL HLL-39UH KRL TSL0707 (CZ58)
L977	2774631R	FERRITE BEADS LEAD (CZ58)
L981	2122253M	COIL-AXIAL 100UH-K (CZ58)
L985	2120486	FILTER COIL 4.7MH-J (CZ58)
L986	2122956M	COIL-AXIAL 100UHKM BELTING (CZ58)
LA01	2123763R	RADIAL COIL 101K (TYPE EL0405)
LA02	2123763R	RADIAL COIL 101K (TYPE EL0405)
LA03	2123763R	RADIAL COIL 101K (TYPE EL0405)
LC01	2123763R	RADIAL COIL 101K (TYPE EL0405)
LC02	2122945M	COIL-AXIAL 15UHKM BELTING
LF01	2122927M	COIL-AXIAL 0.68UH-M
LF02	2143672	IF COIL WITH 7 CASE 1:3 IN CORE
LF05	2143678	IF COIL WITH 7 CASE 10T
LF06	2142445	COIL-AFC
LF10	2145982	COIL-DISCRI 4.7MHZ
LF11	2122949M	COIL-AXIAL 33UHKM BELTING
LF12	2122243M	COIL-AXIAL 18UH-K
LF14	2122952M	COIL-AXIAL 47UHKM BELTING
LF20	2123763R	RADIAL COIL 101K (TYPE EL0405)
LP01	2123781R	FILTER COIL 101K
LP02	2123781R	FILTER COIL 101K
LP31	2123763R	RADIAL COIL 101K (TYPE EL0405)
LS01	2123461M	FERRITE BEADS B 0.8 MH (CZ58)
LS02	2123461M	FERRITE BEADS B 0.8 MH
LS02	2123461M	FERRITE BEADS B 0.8 MH (CZ57P)
LS03	2123461M	FERRITE BEADS B 0.8 MH
LS03	2123461M	FERRITE BEADS B 0.8 MH (CZ57P)
LS04	2123781R	FILTER COIL 101K (CZ58)
LS05	2123781R	FILTER COIL 101K
LS05	2123781R	FILTER COIL 101K (CZ57P)
LS06	2123781R	FILTER COIL 101K
LS06	2123781R	FILTER COIL 101K (CZ57P)

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SYMBOL NO.	PART NO.	PART DESCRIPTION
LS07	2123781R	FILTER COIL 101K (CZ57P)
LS08	2123781R	FILTER COIL 101K (CZ57P)
LS09	2123781R	FILTER COIL 101K (CZ57P)
LS12	2123781R	FILTER COIL 101K (CZ57P)
LS13	2123781R	FILTER COIL 101K (CZ57P)
LS14	2123781R	FILTER COIL 101K (CZ57P)
LV01	2122943M	COIL-AXIAL 10UHKM BELTING
LV02	2123468M	FERRITE BEADS CORE LEAD 0.8MH
LV03	2123468M	FERRITE BEADS CORE LEAD 0.8MH
LV04	2123468M	FERRITE BEADS CORE LEAD 0.8MH
LV06	2122957M	COIL-AXIAL 120UHKM BELTING
LX01	2123105M	LAL02 AXIAL COIL 15UH-K (CZ58/CY58)
LX02	2123116M	COIL-AXIAL 100UH-K (CZ58/CY58)
LX03	2123109M	COIL-AXIAL 33UH-K (CZ58/CY58)
LX04	2123763R	RADIAL COIL 101K (TYPE EL0405) (CZ58/CY58)
LX05	2123763R	RADIAL COIL 101K (TYPE EL0405) (CZ58/CY58)
LX06	2123763R	RADIAL COIL 101K (TYPE EL0405) (CZ58/CY58)
LX07	2123763R	RADIAL COIL 101K (TYPE EL04050) (CZ58/CY58))
LX08	2123763R	RADIAL COIL 101K (TYPE EL0405) (CZ58/CY58)
LX09	2123763R	RADIAL COIL 101K (TYPE EL0405) (CZ58/CY58)
LX10	2123763R	RADIAL COIL 101K(TYPE EL0405)(CZ58/CY58)
LX11	2123109M	COIL-AXIAL 33UH-K (CZ58/CY58)
LY01	2123781R	FILTER COIL 101K
LY04	2123763R	RADIAL COIL 101K (TYPE EL0405)
LY70	2123763R	RADIAL COIL 101K (TYPE EL0405) (CZ58/CZ57)
		INSTRUCTION MANUAL
N201	QR02741	INSTRUCTION MANUAL 35V/32V
N201	QR02742	INSTRUCTION MANUAL 35UX70BA/35UX80B
		TRANSISTORS
Q001	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MH
Q002	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MH
Q003	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MH
Q004	2320647M	TRS. 2SC1213 (C 21 TZ/D 21 TZ) SI 80MHZ
Q005	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MH
Q006	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MH
Q007	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ
Q008	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MH
Q009	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MH
Q011	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MH
Q012	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MH
Q013	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MH
Q014	2321321M	TRS. 2SA844 (D TZ/E TZ) SI 200MH
Q015	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MH
Q018	2320598M	TRS. 2SC458 (B TZ/C TZ/D TZ)
Q019	2323521M	TRS. 2SD789 B/C/D/E SI 80MHZ
Q020	2320647M	TRS. 2SC1213 (C 21 TZ/D 21 TZ) SI 80MHZ (CZ58)
Q021	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MH
Q023	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MH
Q024	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MH
Q0501	2320598M	TRS. 2SC458 (B TZ/C TZ/D TZ) (CZ56)
Q0502	2312992	PHOTO TRS. RPT-38PT3F (M) (CZ56)
Q10S	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ (CZ58)
Q301	2326876R	TRS. DTC124ES TAPE (CZ56/57/CY58)
Q302	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MH
Q303	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MH
Q304	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MH
Q305	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MH
Q420	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MH
Q420	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ (CZ57P)
Q421	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MH
Q422	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MH
Q504	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MH
Q505	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ
Q506	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MH
Q507	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MH
Q508	2320647M	TRS. 2SC1213 (C 21 TZ/D 21 TZ) SI 80MHZ
Q610	2320596M	TRS. 2SC458 (C TZ/D TZ) SI 230MH
Q6H0	2320598M	TRS. 2SC458 (B TZ/C TZ/D TZ)
Q710	2323523M	TRS. 2SD789 D TAPE
⚠ Q711	2315275F	TRS. 2SC4589-06 (1500V)
Q713	2321112M	TRS.2SA778AK (02 TAPE)
Q714	2323434	TRS. 2SC1983 (O/Y)
Q720	2323431	TRS. 2SC1983
Q721	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ
Q722	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ (CZ58/CY58)
Q7H0	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ
Q7H1	2320596M	TRS. 2SC458 (C TZ/D TZ) SI 230MH
Q811	2320596M	TRS. 2SC458 (C TZ/D TZ) SI 230MH
Q812	2320596M	TRS. 2SC458 (C TZ/D TZ) SI 230MH
Q851	2315491	TRS. 2SC4544
Q852	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MH
Q853	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ
Q854	2315491	TRS. 2SC4544
Q855	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MH
Q856	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ
Q857	2315491	TRS. 2SC4544
Q858	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MH
Q859	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ
Q901	CF00211	TRS. 2SK1101-01M (450V)
⚠ Q941	2320596M	TRS. 2SC458 (C TZ/D TZ) SI 230MH
Q945	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ
Q951	2326631	THYRISTOR CR5AS-8 (B-A1)
Q961	CF00211	TRS. 2SK1101-01M (450V)(CZ58)
Q962	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ (CZ58)
Q963	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ (CZ58)
Q964	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ (CZ58)
Q981	2315933	TRS. 2SB1548A P/Q (CZ58)
Q982	2320647M	TRS. 2SC1213 (C 21 TZ/D 21 TZ) SI 80MHZ (CZ58)
Q9N1	2312172	TRS. 2SD2375 Q/P (CZ58)
Q9N2	2320664	TRS. 2SC1213A (B/C) SI 80MHZ
Q9N3	2315933	TRS. 2SB1548A P/Q (CZ56/57/CY58)
Q9N3	2321321M	TRS. 2SA844 (D TZ/E TZ) SI 200MH(CZ58)
QA01	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MH
QA02	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ
QA03	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MH
QA04	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ
QA05	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MH
QA06	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MH
QA07	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MH
QA08	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ
QA09	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MH
QA10	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ
QA11	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MH
QA12	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MH
QA70	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MH (CZ58/CZ57)
QA71	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MH (CZ58/CZ57)
QA72	2326876R	TRS. DTC124ES TAPE
QA73	2326876R	TRS. DTC124ES TAPE
QC01	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MH
QC02	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MH
QC03	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MH
QC04	2326876R	TRS. DTC124ES TAPE
QC05	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MH
QF01	2320144M	TRS. 2SC1906 (TAPE) SI 750MH
QF02	2320144M	TRS. 2SC1906 (TAPE) SI 750MH
QF03	2320596M	TRS. 2SC458 (C TZ/D TZ) SI 230MH
QM01	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MH (CZ57/58/CY58)
QM02	2312992	PHOTO TRS. RPT-38PT3F (M) (CZ57/58/CY58)
QS01	2320598M	TRS. 2SC458 (B TZ/C TZ/D TZ)
QS02	2320598M	TRS. 2SC458 (B TZ/C TZ/D TZ)
QS03	2320598M	TRS. 2SC458 (B TZ/C TZ/D TZ)
QS03	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ (CZ57P)
QS04	2320598M	TRS. 2SC458 (B TZ/C TZ/D TZ)
QS04	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ (CZ57P)
QS05	2320598M	TRS. 2SC458 (B TZ/C TZ/D TZ)
QS05	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ (CZ57P)
QS06	2320598M	TRS. 2SC458 (B TZ/C TZ/D TZ)
QS06	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ (CZ57P)
QS07	2320598M	TRS. 2SC458 (B TZ/C TZ/D TZ) (CZ58)
QS08	2320598M	TRS. 2SC458 (B TZ/C TZ/D TZ) (CZ58)
QS08	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ (CZ57P)
QS11	2320598M	TRS. 2SC458 (B TZ/C TZ/D TZ) (CZ57P)

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SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
QS12	2320598M	TRS. 2SC458 (B TZ/C TZ/D TZ) (CZ57P)	R025	0700041M	CF. 1/16W 1.0K-JB
QS14	2320598M	TRS. 2SC458 (B TZ/C TZ/D TZ) (CZ57P)	R026	0700046M	CF. 1/16W 2.7K-JB
QS15	2320598M	TRS. 2SC458 (B TZ/C TZ/D TZ) (CZ57P)	R028	0700041M	CF. 1/16W 1.0K-JB
QS17	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ (CZ57P)	R029	0700041M	CF. 1/16W 1.0K-JB
QSN1	2312172	TRS. 2SD2375 Q/P (CZ58)	R030	0700041M	CF. 1/16W 1.0K-JB
QSN2	2320647M	TRS. 2SC1213 (C 21 TZ/D 21 TZ) SI 80MHZ	R031	0700041M	CF. 1/16W 1.0K-JB
QSN2	2320647M	TRS. 2SC1213 (C 21 TZ/D 21 TZ) SI 80MHZ4 (CZ57P)	R032	0700041M	CF. 1/16W 1.0K-JB
QSN3	2315933	TRS. 2SB1548A P/Q (CZ56/57/CY58)	R033	0700054M	CF. 1/16W 10K-JB
QSN3	2321321M	TRS. 2SA844 (D TZ/E TZ) SI 200MH (CZ58)	R034	0700054M	CF. 1/16W 10K-JB
QSN3	2315933	TRS. 2SB1548A P/Q (CZ57P)	R035	0700058M	CF. 1/16W 22K-JB
QT01	2320598M	TRS. 2SC458 (B TZ/C TZ/D TZ) (CZ56/57/CY58)	R036	0700065M	CF. 1/16W 68K-JB (CZ58)
QT01	2320598M	TRS. 2SC458 (B TZ/C TZ/D TZ) (CZ57P)	R037	0700041M	CF. 1/16W 1.0K-JB
QT02	2320598M	TRS. 2SC458 (B TZ/C TZ/D TZ) (CZ56/57/CY58)	R038	0700041M	CF. 1/16W 1.0K-JB
QT02	2320598M	TRS. 2SC458 (B TZ/C TZ/D TZ) (CZ57P)	R039	0700041M	CF. 1/16W 1.0K-JB (CZ58)
QT03	2320598M	TRS. 2SC458 (B TZ/C TZ/D TZ) (CZ56/57/CY58)	R040	0700027M	CF. 1/16W 100-JB
QT03	2320598M	TRS. 2SC458 (B TZ/C TZ/D TZ) (CZ57P)	R042	0700054M	CF. 1/16W 10K-JB
QT04	2320598M	TRS. 2SC458 (B TZ/C TZ/D TZ) (CZ56/57/CY58)	R043	0700056M	CF. 1/16W 15K-JB
QT04	2320598M	TRS. 2SC458 (B TZ/C TZ/D TZ) (CZ57P)	R044	0700049M	CF. 1/16W 4.7K-JB
QT05	2320598M	TRS. 2SC458 (B TZ/C TZ/D TZ) (CZ56/57/CY58)	R047	0700054M	CF. 1/16W 10K-JB
QT05	2320598M	TRS. 2SC458 (B TZ/C TZ/D TZ) (CZ57P)	R049	0700058M	CF. 1/16W 22K-JB
QT06	2320598M	TRS. 2SC458 (B TZ/C TZ/D TZ) (CZ56/57/CY58)	R0501	0700041M	CF. 1/16W 1.0K-JB (CZ56)
QT06	2320598M	TRS. 2SC458 (B TZ/C TZ/D TZ) (CZ57P)	R0502	0700058M	CF. 1/16W 22K-JB (CZ56)
QT07	2320598M	TRS. 2SC458 (B TZ/C TZ/D TZ) (CZ56/57/CY58)	R0503	0700045M	CF. 1/16W 2.2K-JB (CZ56)
QT07	2320598M	TRS. 2SC458 (B TZ/C TZ/D TZ) (CZ57P)	R0504	0100065M	CF. 1/8W 1K-JB (CZ56)
QT08	2320598M	TRS. 2SC458 (B TZ/C TZ/D TZ) (CZ56/57/CY58)	R051	0700054M	CF. 1/16W 10K-JB
QT08	2320598M	TRS. 2SC458 (B TZ/C TZ/D TZ) (CZ57P)	R0510	0100125M	CF. 1/8W 330K-JB (CZ56)
QV01	2320596M	TRS. 2SC458 (C TZ/D TZ) SI 230MH	R0511	0700041M	CF. 1/16W 1.0K-JB (CZ56)
QV02	2320596M	TRS. 2SC458 (C TZ/D TZ) SI 230MH	R0512	0100125M	CF. 1/8W 330K-JB (CZ56)
QV03	2320596M	TRS. 2SC458 (C TZ/D TZ) SI 230MH	R0513	0100129M	CF. 1/8W 470K-JB (CZ56)
QV04	2320596M	TRS. 2SC458 (C TZ/D TZ) SI 230MH	R0516	0700041M	CF. 1/16W 1.0K-JB (CZ56)
QV05	2320596M	TRS. 2SC458 (C TZ/D TZ) SI 230MH	R0517	0700043M	CF. 1/16W 1.5K-JB (CZ56)
QV06	2320596M	TRS. 2SC458 (C TZ/D TZ) SI 230MH	R0518	0187074M	CF. 1/16W 2.4K-JB (CZ56)
QV07	2320647M	TRS. 2SC1213 (C 21 TZ/D 21 TZ) SI 80MHZ	R0519	0187080M	CF. 1/16W 4.3K-JB (CZ56)
QV08	2321351M	TRS. 2SA836/844D/E 100MA 200MW 200MHZSI	R0520	0100065M	CF. 1/8W 1K-JB (CZ56)
QV09	2315381	TRS. 2SA1837	R053	0700041M	CF. 1/16W 1.0K-JB
QV10	2315391	TRS. 2SC4793	R055	0700054M	CF. 1/16W 10K-JB
QV11	2320596M	TRS. 2SC458 (C TZ/D TZ) SI 230MH	R0550	0100125M	CF. 1/8W 330K-JB (CZ56)
QV12	2320596M	TRS. 2SC458 (C TZ/D TZ) SI 230MH	R059	0700053M	CF. 1/16W 8.2K-JB
QX01	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MH (CZ58/CY58)	R060	0700054M	CF. 1/16W 10K-JB
QX02	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MH (CZ58/CY58)	R061	0700053M	CF. 1/16W 8.2K-JB
QX04	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MH (CZ58/CY58)	R062	0700054M	CF. 1/16W 10K-JB
QX05	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MH (CZ58/CY58)	R063	0700055M	CF. 1/16W 12K-JB
QX08	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MH (CZ58/CY58)	R064	0700054M	CF. 1/16W 10K-JB
QX09	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MH (CZ58/CY58)	R065	0700045M	CF. 1/16W 2.2K-JB
QX10	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MH (CZ58/CY58)	R066	0700058M	CF. 1/16W 22K-JB
QX11	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ (CZ58/CY58)	R067	0700049M	CF. 1/16W 4.7K-JB
QX12	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MH (CZ58/CY58	R068	0700067M	CF. 1/16W 100K-JB
QY07	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MH	R069	0700031M	CF. 1/16W 180-JB
QY08	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MH	R070	0700066M	CF. 1/16W 82K-JB
			R071	0700058M	CF. 1/16W 22K-JB
		RESISTORS	R073	0700041M	CF. 1/16W 1.0K-JB
			R074	0700036M	CF. 1/16W 470-JB
R004	0100065M	CF. 1/8W 1K-JB	R075	0700036M	CF. 1/16W 470-JB
R005	0100089M	CF. 1/8W 10K-JB	R078	0700054M	CF. 1/16W 10K-JB
R006	0100065M	CF. 1/8W 1K-JB	R079	0700054M	CF. 1/16W 10K-JB
R007	0100065M	CF. 1/8W 1K-JB	R080	0100107M	CF. 1/8W 56K-JB
R008	0700041M	CF. 1/16W 1.0K-JB	R081	0700051M	CF. 1/16W 5.6K-JB
R009	0700041M	CF. 1/16W 1.0K-JB	R082	0700051M	CF. 1/16W 5.6K-JB
R010	0700054M	CF. 1/16W 10K-JB	R083	0700036M	CF. 1/16W 470-JB
R011	0700041M	CF. 1/16W 1.0K-JB	R084	0700036M	CF. 1/16W 470-JB
R012	0700041M	CF. 1/16W 1.0K-JB	R085	0700041M	CF. 1/16W 1.0K-JB
R013	0700058M	CF. 1/16W 22K-JB	R086	0700041M	CF. 1/16W 1.0K-JB
R014	0700058M	CF. 1/16W 22K-JB	R087	0700027M	CF. 1/16W 100-JB
R015	0700058M	CF. 1/16W 22K-JB	R089	0700041M	CF. 1/16W 1.0K-JB
R016	0700041M	CF. 1/16W 1.0K-JB	R091	0700049M	CF. 1/16W 4.7K-JB
R017	0700041M	CF. 1/16W 1.0K-JB	R092	0700041M	CF. 1/16W 1.0K-JB
R018	0700041M	CF. 1/16W 1.0K-JB	R093	0700041M	CF. 1/16W 1.0K-JB
R019	0700032M	CF. 1/16W 220-JB	R094	0700041M	CF. 1/16W 1.0K-JB
R020	0700041M	CF. 1/16W 1.0K-JB	R095	0700056M	CF. 1/16W 15K-JB
R021	0700041M	CF. 1/16W 1.0K-JB	R096	0700054M	CF. 1/16W 10K-JB
R022	0700058M	CF. 1/16W 22K-JB	R097	0700063M	CF. 1/16W 47K-JB
R023	0700049M	CF. 1/16W 4.7K-JB	R099	0700063M	CF. 1/16W 47K-JB
R024	0700051M	CF. 1/16W 5.6K-JB	R1	0100065M	CF. 1/8W 1K-JB (CZ57P)

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SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
R100	0700067M	CF. 1/16W 100K-JB	R315	0700033M	CF. 1/16W 270-JB
R101	0700058M	CF. 1/16W 22K-JB	R316	0700032M	CF. 1/16W 220-JB
R102	0700058M	CF. 1/16W 22K-JB	R317	0700061M	CF. 1/16W 33K-JB
R104	0700041M	CF. 1/16W 1.0K-JB (CZ58)	R319	0700064M	CF. 1/16W 56K-JB
R105	0700041M	CF. 1/16W 1.0K-JB	R31N	0700033M	CF. 1/16W 270-JB
R106	0700058M	CF. 1/16W 22K-JB	R320	0700066M	CF. 1/16W 82K-JB
R107	0700041M	CF. 1/16W 1.0K-JB	R321	0700064M	CF. 1/16W 56K-JB
R108	0700051M	CF. 1/16W 5.6K-JB	R322	0700058M	CF. 1/16W 22K-JB
R109	0700041M	CF. 1/16W 1.0K-JB	R323	0700054M	CF. 1/16W 10K-JB
R10S	0700033M	CF. 1/16W 270-JB (CZ58)	R324	0700059M	CF. 1/16W 27K-JB
R110	0700041M	CF. 1/16W 1.0K-JB	R325	0150114	VR. RV6 10K-B
R111	0700041M	CF. 1/16W 1.0K-JB	R326	0700063M	CF. 1/16W 47K-JB
R113	0700056M	CF. 1/16W 15K-JB	R327	0700058M	CF. 1/16W 22K-JB
R114	0700041M	CF. 1/16W 1.0K-JB	R328	0700041M	CF. 1/16W 1.0K-JB
R115	0700041M	CF. 1/16W 1.0K-JB	R329	0700048M	CF. 1/16W 3.9K-JB
R116	0700041M	CF. 1/16W 1.0K-JB	R330	0700029M	CF. 1/16W 150-JB
R117	0700054M	CF. 1/16W 10K-JB	R331	0700047M	CF. 1/16W 3.3K-JB
R119	0700041M	CF. 1/16W 1.0K-JB	R332	0700049M	CF. 1/16W 4.7K-JB
R11S	0700033M	CF. 1/16W 270-JB (CZ58)	R334	0700051M	CF. 1/16W 5.6K-JB
R123	0700041M	CF. 1/16W 1.0K-JB	R335	0700049M	CF. 1/16W 4.7K-JB
R124	0700041M	CF. 1/16W 1.0K-JB	R336	0100131M	CF. 1/8W 560K-JB
R125	0700041M	CF. 1/16W 1.0K-JB	R337	0700058M	CF. 1/16W 22K-JB
R126	0700041M	CF. 1/16W 1.0K-JB	R338	0700054M	CF. 1/16W 10K-JB
R12S	0700027M	CF. 1/16W 100-JB (CZ58)	R339	0700067M	CF. 1/16W 100K-JB
R134	0700058M	CF. 1/16W 22K-JB	R340	0700054M	CF. 1/16W 10K-JB
R137	0700041M	CF. 1/16W 1.0K-JB	R341	0700067M	CF. 1/16W 100K-JB
R139	0700041M	CF. 1/16W 1.0K-JB	R342	0700052M	CF. 1/16W 6.8K-JB
R13S	0700041M	CF. 1/16W 1.0K-JB (CZ58)	R343	0700049M	CF. 1/16W 4.7K-JB
R140	0700041M	CF. 1/16W 1.0K-JB	R344	0700048M	CF. 1/16W 3.9K-JB
R141	0700041M	CF. 1/16W 1.0K-JB	R345	0700049M	CF. 1/16W 4.7K-JB
R144	0700041M	CF. 1/16W 1.0K-JB	R346	0700065M	CF. 1/16W 68K-JB
R145	0700027M	CF. 1/16W 100-JB	R347	0700046M	CF. 1/16W 2.7K-JB
R147	0700041M	CF. 1/16W 1.0K-JB	R348	0700049M	CF. 1/16W 4.7K-JB
R148	0700041M	CF. 1/16W 1.0K-JB	R350	0700053M	CF. 1/16W 8.2K-JB
R149	0700041M	CF. 1/16W 1.0K-JB	R351	0700048M	CF. 1/16W 3.9K-JB
R14S	0700054M	CF. 1/16W 10K-JB (CZ58)	R353	0700041M	CF. 1/16W 1.0K-JB
R150	0700041M	CF. 1/16W 1.0K-JB	R355	0700048M	CF. 1/16W 3.9K-JB
R151	0100059M	CF. 1/8W 560-JB	R356	0700049M	CF. 1/16W 4.7K-JB
R152	0700022M	CF. 1/16W 39-J	R357	0700053M	CF. 1/16W 8.2K-JB
R153	0100065M	CF. 1/8W 1K-JB	R358	0100129M	CF. 1/8W 470K-JB
R154	0700054M	CF. 1/16W 10K-JB (CZ58)	R359	0700034M	CF. 1/16W 330-JB
R155	0700054M	CF. 1/16W 10K-JB (CZ58)	R361	0700034M	CF. 1/16W 330-JB
R156	0100065M	CF. 1/8W 1K-JB (CZ58)	R362	0700034M	CF. 1/16W 330-JB
R157	0700034M	CF. 1/16W 330-JB	R363	0700034M	CF. 1/16W 330-JB
R158	0700041M	CF. 1/16W 1.0K-JB	R364	0700054M	CF. 1/16W 10K-JB
R15S	0100113M	CF. 1/8W 100K-JB (CZ58)	R366	0700041M	CF. 1/16W 1.0K-JB
R161	0700041M	CF. 1/16W 1.0K-JB	R368	0700051M	CF. 1/16W 5.6K-JB
R166	0700054M	CF. 1/16W 10K-JB	R369	0700033M	CF. 1/16W 270-JB
R167	0700054M	CF. 1/16W 10K-JB	R371	0700041M	CF. 1/16W 1.0K-JB
R168	0700057M	CF. 1/16W 18K-JB	R374	0700047M	CF. 1/16W 3.3K-JB
R169	0100059M	CF. 1/8W 560-JB	R375	0100125M	CF. 1/8W 330K-JB
R170	0700027M	CF. 1/16W 100-JB	R3801	0187038M	CF. 1/16W 75-J (CZ56)
R178	0700063M	CF. 1/16W 47K-JB	R3802	0100041M	CF. 1/8W 100-JB (CZ56)
R185	0700054M	CF. 1/16W 10K-JB	R3803	0700041M	CF. 1/16W 1.0K-JB (CZ56)
R186	0700041M	CF. 1/16W 1.0K-JB	R3804	0700041M	CF. 1/16W 1.0K-JB(CZ56)
R188	0700054M	CF. 1/16W 10K-JB	R3805	0100123M	CF. 1/8W 270K-JB (CZ56)
R189	0700063M	CF. 1/16W 47K-JB	R3806	0700064M	CF. 1/16W 56K-JB (CZ56)
R190	0700051M	CF. 1/16W 5.6K-JB	R3807	0700047M	CF. 1/16W 3.3K-JB (CZ56)
R194	0700054M	CF. 1/16W 10K-JB	R3808	0700045M	CF. 1/16W 2.2K-JB (CZ56)
R2	0100065M	CF. 1/8W 1K-JB (CZ57P)	R3809	0700064M	CF. 1/16W 56K-JB (CZ56)
R301	0700041M	CF. 1/16W 1.0K-JB	R381	0100051M	CF. 1/8W 270-JB
R302	0700056M	CF. 1/16W 15K-JB	R3810	0100123M	CF. 1/8W 270K-JB (CZ56)
R303	0700041M	CF. 1/16W 1.0K-JB (CZ56/57/CY58)	R3811	0700041M	CF. 1/16W 1.0K-JB (CZ56)
R304	0700029M	CF. 1/16W 150-JB	R3812	0700041M	CF. 1/16W 1.0K-JB (CZ56)
R305	0700054M	CF. 1/16W 10K-JB (CZ56/57/CY58)	R3813	0100041M	CF. 1/8W 100-JB (CZ56)
R306	0700058M	CF. 1/16W 22K-JB	R382	0700062M	CF. 1/16W 39K-JB
R307	0700058M	CF. 1/16W 22K-JB	R383	0700038M	CF. 1/16W 680-JB
R308	0700057M	CF. 1/16W 18K-JB	R384	0700039M	CF. 1/16W 820-JB
R309	0700054M	CF. 1/16W 10K-JB	R385	0700043M	CF. 1/16W 1.5K-JB
R311	0700061M	CF. 1/16W 33K-JB	R386	0114135M	CF. 1/4W 150-JB
R312	0700029M	CF. 1/16W 150-JB	R387	0700037M	CF. 1/16W 560-JB
R313	0700054M	CF. 1/16W 10K-JB	R388	0700027M	CF. 1/16W 100-JB
R314	0700046M	CF. 1/16W 2.7K-JB	R389	0700063M	CF. 1/16W 47K-JB

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SYMBOL NO.	PART NO.	PART DESCRIPTION
R390	0100055M	CF. 1/8W 390-JB
R391	0100115M	CF. 1/8W 120K-JB
R392	0700041M	CF. 1/16W 1.0K-JB
R393	0700052M	CF. 1/16W 6.8K-JB
R394	0700046M	CF. 1/16W 2.7K-JB
R395	0700043M	CF. 1/16W 1.5K-JB
R396	0700061M	CF. 1/16W 33K-JB
R397	0700057M	CF. 1/16W 18K-JB
R398	0100121M	CF. 1/8W 220K-JB
R399	0700055M	CF. 1/16W 12K-JB
R3A8	0100119M	CF. 1/8W 180K-JB
R3A9	0700042M	CF. 1/16W 1.2K-JB
R3E1	0700027M	CF. 1/16W 100-JB
R3E2	0700027M	CF. 1/16W 100-JB
R3N2	0700032M	CF. 1/16W 220-JB
R3N3	0700028M	CF. 1/16W 120-JB
R3N4	0700036M	CF. 1/16W 470-JB
R3N5	0700042M	CF. 1/16W 1.2K-JB
R3N6	0700034M	CF. 1/16W 330-JB
R401	0700041M	CF. 1/16W 1.0K-JB
R402	0100059M	CF. 1/8W 560-JB
R410	0700043M	CF. 1/16W 1.5K-JB
R411	0700051M	CF. 1/16W 5.6K-JB
R412	0700051M	CF. 1/16W 5.6K-JB
R413	0700051M	CF. 1/16W 5.6K-JB
R414	0700034M	CF. 1/16W 330-JB
R415	0700067M	CF. 1/16W 100K-JB
R416	0700054M	CF. 1/16W 10K-JB
R417	0700054M	CF. 1/16W 10K-JB
R418	0700067M	CF. 1/16W 100K-JB
R419	0700045M	CF. 1/16W 2.2K-JB
R420	0700054M	CF. 1/16W 10K-JB
R421	0700034M	CF. 1/16W 330-JB
R423	0700045M	CF. 1/16W 2.2K-JB
R424	0700054M	CF. 1/16W 10K-JB
R425	0700058M	CF. 1/16W 22K-JB
R426	0700058M	CF. 1/16W 22K-JB
R453	0700041M	CF. 1/16W 1.0K-JB
R454	0700041M	CF. 1/16W 1.0K-JB
R466	0700041M	CF. 1/16W 1.0K-JB
R466	0700041M	CF. 1/16W 1.0K-JB (CZ57P)
R467	0700041M	CF. 1/16W 1.0K-JB
R467	0700041M	CF. 1/16W 1.0K-JB (CZ57P)
R471	0700054M	CF. 1/16W 10K-JB
R471	0700054M	CF. 1/16W 10K-JB (CZ57P)
R472	0700054M	CF. 1/16W 10K-JB
R472	0700054M	CF. 1/16W 10K-JB (CZ57P)
R473	0700051M	CF. 1/16W 5.6K-JB (CZ58)
R473	0700051M	CF. 1/16W 5.6K-JB (CZ56/57/CY58)
R473	0700051M	CF. 1/16W 5.6K-JB (CZ57P)
R474	0700051M	CF. 1/16W 5.6K-JB (CZ58)
R474	0700051M	CF. 1/16W 5.6K-JB (CZ56/57/CY58)
R474	0700051M	CF. 1/16W 5.6K-JB (CZ57P)
R475	0700046M	CF. 1/16W 2.7K-JB
R475	0700046M	CF. 1/16W 2.7K-JB (CZ57P)
R476	0700046M	CF. 1/16W 2.7K-JB
R476	0700046M	CF. 1/16W 2.7K-JB (CZ57P)
R477	0700063M	CF. 1/16W 47K-JB
R478	0700067M	CF. 1/16W 100K-JB
R479	0700036M	CF. 1/16W 470-JB
⚠ R480	0119505S	MF. 1/4W 2.2-J
⚠ R481	0119505S	MF. 1/4W 2.2-J
R482	0700063M	CF. 1/16W 47K-JB
R483	0700041M	CF. 1/16W 1.0K-JB
R484	0700058M	CF. 1/16W 22K-JB
R485	0700065M	CF. 1/16W 68K-JB
R486	0700065M	CF. 1/16W 68K-JB
R487	0114161M	CF. 1/4W 1K-JB
R488	0114161M	CF. 1/4W 1K-JB
R489	0700063M	CF. 1/16W 47K-JB
R490	0700063M	CF. 1/16W 47K-JB
R491	0700054M	CF. 1/16W 10K-JB
R492	0700041M	CF. 1/16W 1.0K-JB
R493	0700054M	CF. 1/16W 10K-JB
R494	0700041M	CF. 1/16W 1.0K-JB
R495	0700051M	CF. 1/16W 5.6K-JB
R496	0700043M	CF. 1/16W 1.5K-JB
R501	0187086M	CF. 1/16W 7.5K-JB
R507	0700067M	CF. 1/16W 100K-JB
R513	0700041M	CF. 1/16W 1.0K-JB
R514	0100129M	CF. 1/8W 470K-JB
R516	0700067M	CF. 1/16W 100K-JB
R517	0700054M	CF. 1/16W 10K-JB
R518	0700067M	CF. 1/16W 100K-JB
R519	0700061M	CF. 1/16W 33K-JB
R520	0700066M	CF. 1/16W 82K-JB
R521	0700054M	CF. 1/16W 10K-JB
R522	0700065M	CF. 1/16W 68K-JB
R523	0700054M	CF. 1/16W 10K-JB
R526	0700054M	CF. 1/16W 10K-JB
R527	0700054M	CF. 1/16W 10K-JB
R528	0700067M	CF. 1/16W 100K-JB
R529	0700059M	CF. 1/16W 27K-JB
R530	0700047M	CF. 1/16W 3.3K-JB
R531	0700049M	CF. 1/16W 4.7K-JB
R532	0700061M	CF. 1/16W 33K-JB
R533	0700046M	CF. 1/16W 2.7K-JB
R534	0700054M	CF. 1/16W 10K-JB
R535	0700055M	CF. 1/16W 12K-JB
R538	0100037M	CF. 1/8W 68-JB
R539	0100049M	CF. 1/8W 220-JB
R540	0100049M	CF. 1/8W 220-JB
R541	0100049M	CF. 1/8W 220-JB
R542	0100041M	CF. 1/8W 100-JB
R543	0700027M	CF. 1/16W 100-JB
R544	0700054M	CF. 1/16W 10K-JB
R548	0700054M	CF. 1/16W 10K-JB
R549	0700029M	CF. 1/16W 150-JB
R550	0700066M	CF. 1/16W 82K-JB
R570	0700062M	CF. 1/16W 39K-JB (CZ56/CZ57)
R5P1	0100065M	CF. 1/8W 1K-JB
R5P2	0100065M	CF. 1/8W 1K-JB
R5P3	0100065M	CF. 1/8W 1K-JB
R5P4	0100065M	CF. 1/8W 1K-JB
R5P5	0110103S	MF. 18-JS
R5P6	0100061M	CF. 1/8W 680-JB
R620	0700035M	CF. 1/16W 390-JB
R621	0700065M	CF. 1/16W 68K-JB
R622	0700058M	CF. 1/16W 22K-JB
R623	0100131M	CF. 1/8W 560K-JB
R624	0114135M	CF. 1/4W 150-JB
R625	0700059M	CF. 1/16W 27K-JB
R626	0100129M	CF. 1/8W 470K-JB
R627	0187106M	CF. 1/16W 51K-JB
R628	0187104M	CF. 1/16W 43K-JB (CZ56/57/58)
R628	0700064M	CF. 1/16W 56K-JB (CY58)
R629	0187074M	CF. 1/16W 2.4K-JB
R630	0700065M	CF. 1/16W 68K-JB (CY58)
R630	0700067M	CF. 1/16W 100K-JB (CZ56/57/58)
R631	0150160	VR. RV06 100K-B 0.1W
R632	0119731M	MF. 1W R68-K TAPE (CZ56/57/58)
R632	0119841M	MF. 1W 0.82-JB (CY58)
R633	0113733M	CF. SRD1/2P-B 220-J
R634	0700049M	CF. 1/16W 4.7K-JB
R635	0100065M	CF. 1/8W 1K-JB
R636	0700041M	CF. 1/16W 1.0K-JB
R637	0700037M	CF. 1/16W 560-JB
R638	0114161M	CF. 1/4W 1K-JB
R639	0114161M	CF. 1/4W 1K-JB (CZ56/57/58)
R640	0700032M	CF. 1/16W 220-JB
R641	0110115S	MF. 56-JS
R692	0700041M	CF. 1/16W 1.0K-JB
R6H0	0700063M	CF. 1/16W 47K-JB (CY58)
R6H0	0700066M	CF. 1/16W 82K-JB (CZ56/57/CY58)
R6H1	0700066M	CF. 1/16W 82K-JB (CZ56/57/CY58)
R6H2	0700059M	CF. 1/16W 27K-JB

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SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
R6H3	0700045M	CF. 1/16W 2.2K-JB	R7HK	0100073M	CF. 1/8W 2.2K-JB
R6H4	0700044M	CF. 1/16W 1.8K-JB	R801	0100053M	CF. 1/8W 330-JB
R6H5	0100133M	CF. 1/8W 680K-JB	R802	0110255S	MF. 2.7K-JS
R6H6	0700064M	CF. 1/16W 56K-JB	R803	0110255S	MF. 2.7K-JS
R6H7	0700059M	CF. 1/16W 27K-JB (CY58)	R804	0110255S	MF. 2.7K-JS
R6H7	0700061M	CF. 1/16W 33K-JB (CZ56/57/CY58)	R805	0179600M	MG. 10M-J TAPE (CZ56/57)
R6H8	0700067M	CF. 1/16W 100K-JB	R806	0179600M	MG. 10M-J TAPE (CZ56/57)
R6H9	0700061M	CF. 1/16W 33K-JB	R811	0100033M	CF. 1/8W 47-JB
R6HA	0114143M	CF. 1/4W 330-JB	R812	0100033M	CF. 1/8W 47-JB
R6HE	0100056M	CF. 1/8W 430-JB	R813	0100033M	CF. 1/8W 47-JB
R6HF	0700049M	CF. 1/16W 4.7K-JB	R814	0700038M	CF. 1/16W 680-JB
R6HG	0700057M	CF. 1/16W 18K-JB	R816	0700049M	CF. 1/16W 4.7K-JB
R6HH	0700064M	CF. 1/16W 56K-JB (CZ56/57/CY58)	R817	0700045M	CF. 1/16W 2.2K-JB
R6HH	0700066M	CF. 1/16W 82K-JB (CY58)	R818	0700049M	CF. 1/16W 4.7K-JB
R6HJ	0700059M	CF. 1/16W 27K-JB	R823	0100089M	CF. 1/8W 10K-JB
R6HK	0700063M	CF. 1/16W 47K-JB	R851	0110255S	MF. 2.7K-JS
R6HM	0100117M	CF. 1/8W 150K-JB	R852	0110255S	MF. 2.7K-JS
R6HN	0700067M	CF. 1/16W 100K-JB	R853	0110255S	MF. 2.7K-JS
R6HS	2340371	THERMISTOR 112301-9	R854	0113750M	CF. 1/2W 1K-JB
R710	0113729M	CF. 1/2W 150-JB	R855	0113750M	CF. 1/2W 1K-JB
⚠R711	0100037M	CF. 1/8W 68-JB	R856	0113750M	CF. 1/2W 1K-JB
R712	0114141M	CF. 1/4W 270-JB	R857	0100053M	CF. 1/8W 330-JB
R713	0119688M	MF. 1W 0.22-JB	R858	0100053M	CF. 1/8W 330-JB
R714	0100087M	CF. 1/8W 8.2K-JB	R860	0150108	VR. RV6 100-B
R715	0100133M	CF. 1/8W 680K-JB	R861	0700018M	CF. 1/16W 22-J
R716	0100109M	CF. 1/8W 68K-JB	R863	0700021M	CF. 1/16W 33-J
R718	0113760M	CF. 1/2W 2.7K-JB	R864	0150108	VR. RV6 100-B
R719	0110259S	MF. 3.9K-JS	R865	0700018M	CF. 1/16W 22-J
R720	0110257S	MF. 3.3K-JS	R866	0150302	VR. RV6 2K-B (V)
R721	0100071M	CF. 1/8W 1.8K-JB	R867	0700038M	CF. 1/16W 680-JB
⚠R730	0119838S	MF. 1/4-S 0.5-J	R868	0150302	VR. RV6 2K-B (V)
⚠R732	0119505G	MF. 2.2-J	R869	0700038M	CF. 1/16W 680-JB
⚠R733	0119505G	MF. 2.2-J	R870	0150302	VR. RV6 2K-B (V)
⚠R734	0100073M	CF. 1/8W 2.2K-JB	R871	0700038M	CF. 1/16W 680-JB
R735	0100077M	CF. 1/8W 3.3K-JB	R874	0700054M	CF. 1/16W 10K-JB
R736	0100105M	CF. 1/8W 47K-JB	R875	0100049M	CF. 1/8W 220-JB
R737	0100106M	CF. 1/8W 51K-JB (CZ56/57/58)	R876	0100049M	CF. 1/8W 220-JB
R737	0100107M	CF. 1/8W 56K-JB (CY58)	R877	0100049M	CF. 1/8W 220-JB
R742	0110225S	MF. 150-JS 2W	R878	0100055M	CF. 1/8W 390-JB
R743	0114049M	CF. 1/4W 22-JB	R879	0100055M	CF. 1/8W 390-JB
R744	0114141M	CF. 1/4W 270-JB	R880	0100055M	CF. 1/8W 390-JB
R745	0700063M	CF. 1/16W 47K-JB	R886	0700038M	CF. 1/16W 680-JB
R746	0700049M	CF. 1/16W 4.7K-JB	R889	0114131M	CF. 1/4W 100-JB
R747	0700046M	CF. 1/16W 2.7K-JB (CZ58/CY58)	R890	0114131M	CF. 1/4W 100-JB
R748	0700061M	CF. 1/16W 33K-JB (CZ58/CY58)	R891	0114131M	CF. 1/4W 100-JB
R749	0700067M	CF. 1/16W 100K-JB	R892	0700022M	CF. 1/16W 39-J
R750	0113750M	CF. 1/2W 1K-JB	⚠R900	0139026	CC. RC1/2W 8.2M-KF HIGH VO
⚠R751	0700053M	CF. 1/16W 8.2K-JB	⚠R901	2341281	THERMISTOR 3R0Q
R753	0110241S	MF. 680-JS	R902	0144151	WW. 33-J
⚠R754	0700048M	CF. 1/16W 3.9K-JB	R903	0147811	WW. 15W 1.5-KM
R755	0100061M	CF. 1/8W 680-JB	R906	0110271S	MF. 2W 12K-JS
R756	0700041M	CF. 1/16W 1.0K-JB	R907	0110271S	MF. 2W 12K-JS
R757	0114141M	CF. 1/4W 270-JB	R908	0110281S	MF. 33K-JS
R758	0700041M	CF. 1/16W 1.0K-JB	R911	0100037M	CF. 1/8W 68-JB
R759	0150114	VR. RV6 10K-B	R912	0700044M	CF. 1/16W 1.8K-JB
⚠R761	0700032M	CF. 1/16W 220-JB	R914	0100009M	CF. 1/8W 4.7-JB
R767	0100025M	CF. 1/8W 22-JB	R915	0179554M	MG. RK1/4P 330K-J
R7H0	0100075M	CF. 1/8W 2.7K-JB	R916	0179554M	MG. RK1/4P 330K-J
R7H1	0700058M	CF. 1/16W 22K-JB	⚠R917	0113798M	CF. SRD1/2P-B 91K-J
R7H2	0700064M	CF. 1/16W 56K-JB	R918	0700067M	CF. 1/16W 100K-JB
R7H3	0700066M	CF. 1/16W 82K-JB	⚠R919	0700034M	CF. 1/16W 330-JB
R7H4	0700064M	CF. 1/16W 56K-JB	⚠R920	0179551M	MG. 1/4W 18-KJ
R7H5	0700057M	CF. 1/16W 18K-JB	R921	0700054M	CF. 1/16W 10K-JB
R7H6	0150276	VR. RV06 20K-B (V)	R922	0110129S	MF. 220-JS
R7H7	0700067M	CF. 1/16W 100K-JB	R923	0119591M	MF. 1/8W 220-FB
R7H8	0700027M	CF. 1/16W 100-JB	⚠R924	0119619M	MF. 1/8W 3.3K-FB
R7H9	0700038M	CF. 1/16W 680-JB	R925	0119641M	MF. 1/8W 27K-FB
R7HA	0700056M	CF. 1/16W 15K-JB	R926	0119641M	MF. 1/8W 27K-FB
R7HE	0700044M	CF. 1/16W 1.8K-JB	R927	0119635M	MF. 1/8W 15K-FB
R7HF	0150279	VR. RV06 100K-B (V)	R928	0700044M	CF. 1/16W 1.8K-JB
R7HG	0700065M	CF. 1/16W 68K-JB	R928	0150136	VR. RV06 5K-B
R7HH	0700054M	CF. 1/16W 10K-JB	R929	0700056M	CF. 1/16W 15K-JB
R7HJ	0700051M	CF. 1/16W 5.6K-JB	R932	0114051M	CF. SRD1/4P 27-J

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SYMBOL NO.	PART NO.	PART DESCRIPTION
R940	0700059M	CF. 1/16W 27K-JB
R942	0100051M	CF. 1/8W 270-JB
⚠ R943	0700045M	CF. 1/16W 2.2K-JB
R944	0114151G	CF. SRD 1/4PF 680-J
⚠ R945	0100065M	CF. 1/8W 1K-JB
R946	0700041M	CF. 1/16W 1.0K-JB
R946	0700049M	CF. 1/16W 4.7K-JB
R947	0700041M	CF. 1/16W 1.0K-JB
R948	0119688	MF. 0.22-J
R951	0194068F	WW. 2W 1.0-KF
R952	0700041M	CF. 1/16W 1.0K-JB
R954	0110281S	MF. 33K-JS
R955	0110281S	MF. 33K-JS
R956	0700038M	CF. 1/16W 680-JB
R956	0100061M	CF. 1/8W 680-JB
R961	0147620	WW. 2.7-KF (CZ58)
R963	0110177S	MF. 22K-JS (CZ58)
R964	0140938S	WW. 7W 15K CEMENTED (CZ58)
R965	0100031M	CF. 1/8W 39-JB (CZ58)
R967	0100033M	CF. 1/8W 47-JB (CZ58)
R968	0148012	WW. 2W 0.1-KS CEMENTED (CZ58)
R969	0119615M	MF. 1/8W 2.2K-FB (CZ58)
R970	0119637M	MF. 1/8W 18K-FB (CZ58)
R971	0113795M	CF. SRD1/2P-B 68K-J (CZ58)
R972	0700061M	CF. 1/16W 33K-JB (CZ58)
R973	0700031M	CF. 1/16W 180-JB (CZ58)
R974	0148014	WW. 2W 0.15CEMENTED (CZ58)
R975	0700041M	CF. 1/16W 1.0K-JB (CZ58)
R976	0100065M	CF. 1/8W 1K-JB (CZ58)
R977	0119695M	MF. 1W 0.47-F (CZ58)
R978	0700041M	CF. 1/16W 1.0K-JB(CZ58)
R979	0100057M	CF. 1/8W 470-JB (CZ58)
R981	0700045M	CF. 1/16W 2.2K-JB (CZ58)
R983	0700045M	CF. 1/16W 2.2K-JB (CZ58)
R986	0110221S	MF. 100-JS (CZ58)
R987	0110221S	MF. 100-JS (CZ58)
R988	0100067M	CF. 1/8W 1.2K-JB (CZ58)
R9N1	0113744M	CF. SRD1/2P-B 560-J (CZ58)
R9N2	0110245S	MF. 1.0K-JS (CZ56/57/CY58)
R9N2	0700054M	CF. 1/16W 10K-JB (CZ58)
R9N3	0700054M	CF. 1/16W 10K-JB
R9N4	0700058M	CF. 1/16W 22K-JB
R9N6	0700045M	CF. 1/16W 2.2K-JB
RA01	0700051M	CF. 1/16W 5.6K-JB
RA02	0700051M	CF. 1/16W 5.6K-JB
RA03	0700051M	CF. 1/16W 5.6K-JB
RA04	0700051M	CF. 1/16W 5.6K-JB
RA05	0700051M	CF. 1/16W 5.6K-JB
RA06	0700051M	CF. 1/16W 5.6K-JB
RA07	0700051M	CF. 1/16W 5.6K-JB
RA08	0700051M	CF. 1/16W 5.6K-JB
RA09	0700041M	CF. 1/16W 1.0K-JB
RA10	0700041M	CF. 1/16W 1.0K-JB
RA11	0700027M	CF. 1/16W 100-JB
RA12	0700027M	CF. 1/16W 100-JB
RA13	0700041M	CF. 1/16W 1.0K-JB
RA14	0700065M	CF. 1/16W 68K-JB
RA15	0187076M	CF. 1/16W 3.0K-JB
RA16	0187082M	CF. 1/16W 5.1K-JB
RA17	0119636M	MF. 1/8W 16K-FB
RA18	0700057M	CF. 1/16W 18K-JB
RA19	0700055M	CF. 1/16W 12K-JB
RA20	0700041M	CF. 1/16W 1.0K-JB
RA21	0700041M	CF. 1/16W 1.0K-JB
RA22	0700041M	CF. 1/16W 1.0K-JB
RA23	0700032M	CF. 1/16W 220-JB
RA24	0700057M	CF. 1/16W 18K-JB
RA25	0700055M	CF. 1/16W 12K-JB
RA26	0700041M	CF. 1/16W 1.0K-JB
RA27	0700041M	CF. 1/16W 1.0K-JB
RA28	0700041M	CF. 1/16W 1.0K-JB
RA29	0700032M	CF. 1/16W 220-JB
RA30	0700041M	CF. 1/16W 1.0K-JB

SYMBOL NO.	PART NO.	PART DESCRIPTION
RA31	0700067M	CF. 1/16W 100K-JB
RA32	0700041M	CF. 1/16W 1.0K-JB
RA33	0700067M	CF. 1/16W 100K-JB
RA34	0700057M	CF. 1/16W 18K-JB
RA35	0700055M	CF. 1/16W 12K-JB
RA36	0700041M	CF. 1/16W 1.0K-JB
RA37	0700041M	CF. 1/16W 1.0K-JB
RA38	0700041M	CF. 1/16W 1.0K-JB
RA39	0700032M	CF. 1/16W 220-JB
RA40	0700057M	CF. 1/16W 18K-JB
RA41	0700055M	CF. 1/16W 12K-JB
RA42	0700041M	CF. 1/16W 1.0K-JB
RA43	0700041M	CF. 1/16W 1.0K-JB
RA44	0700041M	CF. 1/16W 1.0K-JB
RA45	0700032M	CF. 1/16W 220-JB
RA46	0700041M	CF. 1/16W 1.0K-JB
RA47	0700067M	CF. 1/16W 100K-JB
RA48	0700041M	CF. 1/16W 1.0K-JB
RA49	0700067M	CF. 1/16W 100K-JB
RA50	0700041M	CF. 1/16W 1.0K-JB
RA51	0100113M	CF. 1/8W 100K-JB
RA52	0700041M	CF. 1/16W 1.0K-JB
RA53	0700067M	CF. 1/16W 100K-JB
RA54	0700041M	CF. 1/16W 1.0K-JB
RA55	0100113M	CF. 1/8W 100K-JB
RA56	0700041M	CF. 1/16W 1.0K-JB
RA57	0100113M	CF. 1/8W 100K-JB
RA58	0700041M	CF. 1/16W 1.0K-JB
RA59	0700067M	CF. 1/16W 100K-JB
RA60	0700041M	CF. 1/16W 1.0K-JB
RA61	0700067M	CF. 1/16W 100K-JB
RA62	0700041M	CF. 1/16W 1.0K-JB (CZ56/57/58)
RA63	0700041M	CF. 1/16W 1.0K-JB (CZ56/57/58)
RA64	0100123M	CF. 1/8W 270K-JB
RA65	0100123M	CF. 1/8W 270K-JB
RA66	0100123M	CF. 1/8W 270K-JB
RA67	0100123M	CF. 1/8W 270K-JB
RA68	0700041M	CF. 1/16W 1.0K-JB
RA69	0700041M	CF. 1/16W 1.0K-JB
RA70	0119601M	MF. 1/8W 560-FB
RA71	0100041M	CF. 1/8W 100-JB (CZ58/CZ57)
RA72	0700041M	CF. 1/16W 1.0K-JB (CZ58/CZ57)
RA73	0700041M	CF. 1/16W 1.0K-JB (CZ58/CZ57)
RA74	0700064M	CF. 1/16W 56K-JB (CZ58/CZ57)
RA75	0700045M	CF. 1/16W 2.2K-JB (CZ58/CZ57)
RA76	0100123M	CF. 1/8W 270K-JB (CZ58/CZ57)
RA76	0100123M	CF. 1/8W 270K-JB (CZ58/CZ57)
RA77	0700047M	CF. 1/16W 3.3K-JB (CZ58/CZ57)
RA78	0700064M	CF. 1/16W 56K-JB (CZ58/CZ57)
RA79	0100123M	CF. 1/8W 270K-JB (CZ58/CZ57)
RA79	0100123M	CF. 1/8W 270K-JB (CZ58/CZ57)
RA80	0700041M	CF. 1/16W 1.0K-JB (CZ58/CZ57)
RA80	0700027M	CF. 1/16W 100-JB
RA81	0700041M	CF. 1/16W 1.0K-JB (CZ58/CZ57)
RA81	0700027M	CF. 1/16W 100-JB
RA82	0100041M	CF. 1/8W 100-JB (CZ58/CZ57)
RA83	0700054M	CF. 1/16W 10K-JB
RA84	0700048M	CF. 1/16W 3.9K-JB
RA85	0700041M	CF. 1/16W 1.0K-JB
RA86	0700041M	CF. 1/16W 1.0K-JB
RA89	0700054M	CF. 1/16W 10K-JB
RA90	0700054M	CF. 1/16W 10K-JB
RAY1	0100121M	CF. 1/8W 220K-JB
RAY2	0100133M	CF. 1/8W 680K-JB
RC01	0700027M	CF. 1/16W 100-JB
RC02	0700027M	CF. 1/16W 100-JB
RC03	0700027M	CF. 1/16W 100-JB
RC04	0700027M	CF. 1/16W 100-JB
RC05	0700027M	CF. 1/16W 100-JB
RC06	0700041M	CF. 1/16W 1.0K-JB
RC07	0700032M	CF. 1/16W 220-JB
RC09	0700056M	CF. 1/16W 15K-JB
RC10	0700055M	CF. 1/16W 12K-JB

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SYMBOL NO.	PART NO.	PART DESCRIPTION
RC11	0700027M	CF. 1/16W 100-JB
RC12	0700027M	CF. 1/16W 100-JB
RC13	0700053M	CF. 1/16W 8.2K-JB
RC14	0700057M	CF. 1/16W 18K-JB
RC15	0700041M	CF. 1/16W 1.0K-JB
RC16	0100038M	CF. 1/8W 75-JB
RC17	0700027M	CF. 1/16W 100-JB (CZ56/57/58)
RC18	0700027M	CF. 1/16W 100-JB
RC19	0700039M	CF. 1/16W 820-JB
RC71	0100038M	CF. 1/8W 75-JB (CZ58/CZ57)
RDF1	0113768M	CF. SRD1/2P-B (CZ56/57/58)
RDF2	0114219M	CF. 1/4W 56K-JB (CZ56/57/58)
RF01	0700027M	CF. 1/16W 100-JB
RF02	0700048M	CF. 1/16W 3.9K-JB
RF03	0700038M	CF. 1/16W 680-JB
RF04	0700021M	CF. 1/16W 33-J
RF05	0700027M	CF. 1/16W 100-JB
RF06	0700037M	CF. 1/16W 560-JB
RF07	0700048M	CF. 1/16W 3.9K-JB
RF08	0700018M	CF. 1/16W 22-J
RF09	0700033M	CF. 1/16W 270-JB
RF12	0700043M	CF. 1/16W 1.5K-JB
RF13	0700049M	CF. 1/16W 4.7K-JB
RF14	0700044M	CF. 1/16W 1.8K-JB
RF15	0150116	VR. RV6 50K-B
RF16	0700064M	CF. 1/16W 56K-JB
RF21	0100121M	CF. 1/8W 220K-JB
RF22	0100127M	CF. 1/8W 390K-JB
RF23	0700041M	CF. 1/16W 1.0K-JB
RF24	0700045M	CF. 1/16W 2.2K-JB
RF25	0700023M	CF. 1/16W 47-J
RF26	0700034M	CF. 1/16W 330-JB
RF28	0179536M	MG. 1M J TAPE
RF30	0700044M	CF. 1/16W 1.8K-JB
RF31	0100038M	CF. 1/8W 75-JB (CY58)
RF31	0700045M	CF. 1/16W 2.2K-JB
RF32	0100038M	CF. 1/8W 75-JB (CY58)
RF32	0700047M	CF. 1/16W 3.3K-JB
RF33	0700059M	CF. 1/16W 27K-JB (CY58)
RF33	0700045M	CF. 1/16W 2.2K-JB
RF34	0700059M	CF. 1/16W 27K-JB (CY58)
RF35	0700027M	CF. 1/16W 100-JB
RF36	0700036M	CF. 1/16W 470-JB
RF37	0700052M	CF. 1/16W 6.8K-JB
RF39	0100119M	CF. 1/8W 180K-JB
RF41	0100123M	CF. 1/8W 270K-JB (CY58)
RF42	0100123M	CF. 1/8W 270K-JB (CY58)
RF45	0700027M	CF. 1/16W 100-JB
RF46	0700041M	CF. 1/16W 1.0K-JB
RF51	0100038M	CF. 1/8W 75-JB (CY58)
RG02	0700054M	CF. 1/16W 10K-JB (CZ56/57/CY58)
RG03	0700054M	CF. 1/16W 10K-JB (CZ56/57/CY58)
RG04	0100065M	CF. 1/8W 1K-JB (CZ56/57/CY58)
RG05	0147060	WW. 2W 33-K
RH01	0100133M	CF. 1/8W 680K-JB (CZ56)
RH02	0100133M	CF. 1/8W 680K-JB (CZ56)
RM01	0700041M	CF. 1/16W 1.0K-JB (CZ57/58/CY58)
RM02	0700058M	CF. 1/16W 22K-JB (CZ57/58/CY58)
RM03	0700045M	CF. 1/16W 2.2K-JB (CZ57/58/CY58)
RM04	0100065M	CF. 1/8W 1K-JB (CZ57/58/CY58)
RM05	0100065M	CF. 1/8W 1K-JB (CZ57/58/CY58)
RM06	0700041M	CF. 1/16W 1.0K-JB (CZ57/58/CY58)
RM07	0700043M	CF. 1/16W 1.5K-JB (CZ57/58/CY58)
RM08	0700046M	CF. 1/16W 2.7K-JB (CZ57/58/CY58)
RM09	0700049M	CF. 1/16W 4.7K-JB (CZ57/58/CY58)
RM10	0100129M	CF. 1/8W 470K-JB (CZ57/58/CY58)
RM11	0700041M	CF. 1/16W 1.0K-JB (CZ57/58/CY58)
RM12	0100125M	CF. 1/8W 330K-JB (CZ57/58/CY58)
RM14	0100125M	CF. 1/8W 330K-JB (CZ57/58/CY58)
RM15	0700054M	CF. 1/16W 10K-JB (CZ57/58/CY58)
RP03	0100065M	CF. 1/8W 1K-JB
RP04	0100065M	CF. 1/8W 1K-JB
RP05	0100041M	CF. 1/8W 100-JB

SYMBOL NO.	PART NO.	PART DESCRIPTION
RP06	0100041M	CF. 1/8W 100-JB
RP07	0100041M	CF. 1/8W 100-JB
RP08	0100041M	CF. 1/8W 100-JB
RP09	0150282	VR. RV06 500-B
RP10	0150282	VR. RV06 500-B
RP11	0150282	VR. RV06 500-B
RP12	0700035M	CF. 1/16W 390-JB (CZ56/57)
RP12	0700039M	CF. 1/16W 820-JB (CZ58/CY58)
RP13	0700035M	CF. 1/16W 390-JB (CZ56/57)
RP13	0700039M	CF. 1/16W 820-JB (CZ58/CY58)
RP14	0700035M	CF. 1/16W 390-JB (CZ56/57)
RP14	0700039M	CF. 1/16W 820-JB (CZ58/CY58)
RP18	0700058M	CF. 1/16W 22K-JB
RP23	0700058M	CF. 1/16W 22K-JB
RP31	0700032M	CF. 1/16W 220-JB
RP32	0700054M	CF. 1/16W 10K-JB
RP33	0700066M	CF. 1/16W 82K-JB
RP34	0150216	VR. C RV08 10KB
RS01	0100065M	CF. 1/8W 1K-JB
RS01	0700041M	CF. 1/16W 1.0K-JB(CZ57P)
RS02	0100065M	CF. 1/8W 1K-JB
RS02	0700041M	CF. 1/16W 1.0K-JB (CZ57P)
RS03	0100065M	CF. 1/8W 1K-JB
RS03	0700041M	CF. 1/16W 1.0K-JB (CZ57P)
RS04	0100065M	CF. 1/8W 1K-JB
RS04	0700041M	CF. 1/16W 1.0K-JB (CZ57P)
RS05	0700041M	CF. 1/16W 1.0K-JB (CZ57P)
RS06	0700062M	CF. 1/16W 39K-JB
RS06	0700062M	CF. 1/16W 39K-JB (CZ57P)
RS07	0187096M	CF. 1/16W 20K-JB (CZ58)
RS08	0700064M	CF. 1/16W 56K-JB
RS08	0700064M	CF. 1/16W 56K-JB (CZ57P)
RS09	0700051M	CF. 1/16W 5.6K-JB
RS09	0700051M	CF. 1/16W 5.6K-JB (CZ57P)
RS10	0700063M	CF. 1/16W 47K-JB
RS10	0700063M	CF. 1/16W 47K-JB (CZ57P)
RS11	0179536M	MG. 1M J TAPE
RS11	0179536M	MG. 1M J TAPE (CZ57P)
RS12	0700067M	CF. 1/16W 100K-JB
RS12	0700067M	CF. 1/16W 100K-JB (CZ57P)
RS13	0700067M	CF. 1/16W 100K-JB
RS13	0700067M	CF. 1/16W 100K-JB (CZ57P)
RS14	0700045M	CF. 1/16W 2.2K-JB (CZ57P)
RS15	0700054M	CF. 1/16W 10K-JB (CZ57P)
RS16	0700034M	CF. 1/16W 330-JB (CZ57P)
RS17	0700067M	CF. 1/16W 100K-JB (CZ57P)
RS18	0700054M	CF. 1/16W 10K-JB (CZ57P)
RS19	0700045M	CF. 1/16W 2.2K-JB (CZ57P)
RS20	0700041M	CF. 1/16W 1.0K-JB
RS21	0700049M	CF. 1/16W 4.7K-JB
RS22	0700041M	CF. 1/16W 1.0K-JB
RS23	0700049M	CF. 1/16W 4.7K-JB
RS24	0700063M	CF. 1/16W 47K-JB
RS24	0700063M	CF. 1/16W 47K-JB (CZ57P)
RS25	0700067M	CF. 1/16W 100K-JB
RS25	0700067M	CF. 1/16W 100K-JB (CZ57P)
RS26	0700036M	CF. 1/16W 470-JB
RS26	0700036M	CF. 1/16W 470-JB (CZ57P)
RS27	0700063M	CF. 1/16W 47K-JB
RS27	0700063M	CF. 1/16W 47K-JB (CZ57P)
RS28	0700058M	CF. 1/16W 22K-JB
RS28	0700058M	CF. 1/16W 22K-JB (CZ57P)
RS29	0700041M	CF. 1/16W 1.0K-JB
RS29	0700041M	CF. 1/16W 1.0K-JB (CZ57P)
RS30	0700054M	CF. 1/16W 10K-JB (CZ57P)
RS31	0700052M	CF. 1/16W 6.8K-JB (CZ58)
RS32	0700051M	CF. 1/16W 5.6K-JB
RS32	0700045M	CF. 1/16W 2.2K-JB (CZ57P)
RS33	0700051M	CF. 1/16W 5.6K-JB
RS33	0700045M	CF. 1/16W 2.2K-JB (CZ57P)
RS34	0700045M	CF. 1/16W 2.2K-JB
RS34	0700047M	CF. 1/16W 3.3K-JB (CZ57P)
RS35	0700045M	CF. 1/16W 2.2K-JB

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SYMBOL NO.	PART NO.	PART DESCRIPTION
RS35	0700047M	CF. 1/16W 3.3K-JB (CZ57P)
RS36	0700045M	CF. 1/16W 2.2K-JB (CZ58)
RS37	0700034M	CF. 1/16W 330-JB (CZ57P)
RS38	0700067M	CF. 1/16W 100K-JB (CZ57P)
RS39	0700063M	CF. 1/16W 47K-JB (CZ58)
RS39	0700063M	CF. 1/16W 47K-JB (CZ57P)
RS40	0700067M	CF. 1/16W 100K-JB (CZ58)
RS40	0700067M	CF. 1/16W 100K-JB (CZ57P)
RS41	0700063M	CF. 1/16W 47K-JB (CZ58)
RS41	0700063M	CF. 1/16W 47K-JB (CZ57P)
RS42	0700054M	CF. 1/16W 10K-JB (CZ58)
RS43	0700054M	CF. 1/16W 10K-JB
RS43	0700054M	CF. 1/16W 10K-JB (CZ57P)
RS44	0700054M	CF. 1/16W 10K-JB
RS44	0700054M	CF. 1/16W 10K-JB (CZ57P)
⚠ RS45	0119505S	MF. 1/4W 2.2-J (CZ58)
⚠ RS46	0119505S	MF. 1/4W 2.2-J
⚠ RS46	0119505S	RES.-MTL FLM 1/4W 2.2-J (CZ57P)
⚠ RS47	0119505S	RES.-MTL FLM 1/4W 2.2-J (CZ57P)
⚠ RS47	0119505S	MF. 1/4W 2.2-J
RS48	0700065M	CF. 1/16W 68K-JB (CZ58)
RS49	0700065M	CF. 1/16W 68K-JB
RS49	0700065M	CF. 1/16W 68K-JB (CZ57P)
RS50	0700065M	CF. 1/16W 68K-JB
RS50	0700065M	CF. 1/16W 68K-JB (CZ57P)
RS51	0114161M	CF. 1/4W 1K-JB
RS51	0114161M	CF. 1/4W 1K-JB (CZ57P)
RS52	0114161M	CF. 1/4W 1K-JB
RS52	0114161M	CF. 1/4W 1K-JB (CZ57P)
RS53	0114161M	CF. 1/4W 1K-JB (CZ58)
RS54	0100065M	CF. 1/8W 1K-JB
RS54	0700054M	CF. 1/16W 10K-JB (CZ57P)
RS55	0100065M	CF. 1/8W 1K-JB
RS55	0700045M	CF. 1/16W 2.2K-JB (CZ57P)
RS56	0700058M	CF. 1/16W 22K-JB
RS56	0700045M	CF. 1/16W 2.2K-JB (CZ57P)
RS57	0700058M	CF. 1/16W 22K-JB
RS57	0700043M	CF. 1/16W 1.5K-JB (CZ57P)
RS61	0700067M	CF. 1/16W 100K-JB (CZ58)
RS62	0700067M	CF. 1/16W 100K-JB (CZ58)
RS63	0700067M	CF. 1/16W 100K-JB (CZ58)
RS64	0700067M	CF. 1/16W 100K-JB (CZ58)
RS65	0700067M	CF. 1/16W 100K-JB (CZ58)
RS66	0700067M	CF. 1/16W 100K-JB (CZ58)
RS67	0700058M	CF. 1/16W 22K-JB
RS67	0700058M	CF. 1/16W 22K-JB (CZ57P)
RS68	0700058M	CF. 1/16W 22K-JB
RS68	0700058M	CF. 1/16W 22K-JB (CZ57P)
RS69	0700058M	CF. 1/16W 22K-JB
RS69	0700058M	CF. 1/16W 22K-JB (CZ57P)
RS70	0100065M	CF. 1/8W 1K-JB
RS70	0100065M	CF. 1/8W 1K-JB (CZ57P)
RS71	0100041M	CF. 1/8W 100-JB
RS72	0100041M	CF. 1/8W 100-JB
RS77	0700051M	CF. 1/16W 5.6K-JB (CZ57P)
RS78	0700051M	CF. 1/16W 5.6K-JB (CZ57P)
RS79	0700063M	CF. 1/16W 47K-JB (CZ57P)
RS80	0700032M	CF. 1/16W 220-JB (CZ58)
RS80	0700045M	CF. 1/16W 2.2K-JB (CZ57P)
RS81	0700045M	CF. 1/16W 2.2K-JB (CZ57P)
RS84	0700063M	CF. 1/16W 47K-JB (CZ57P)
RS86	0700051M	CF. 1/16W 5.6K-JB (CZ57P)
RS90	0700054M	CF. 1/16W 10K-JB (CZ56/57/CY58)
RS90	0700051M	CF. 1/16W 5.6K-JB (CZ57P)
RS91	0700054M	CF. 1/16W 10K-JB (CZ56/57/CY58)
RS91	0700043M	CF. 1/16W 1.5K-JB (CZ57P)
RS97	0700041M	CF. 1/16W 1.0K-JB (CZ57P)
RS99	0700041M	CF. 1/16W 1.0K-JB (CZ57P)
RSA1	0700041M	CF. 1/16W 1.0K-JB (CZ57P)
RSA2	0700041M	CF. 1/16W 1.0K-JB (CZ57P)
RSA3	0700041M	CF. 1/16W 1.0K-JB (CZ57P)
RSA4	0700041M	CF. 1/16W 1.0K-JB (CZ57P)
RSA5	0700041M	CF. 1/16W 1.0K-JB (CZ57P)
RSA6	0700041M	CF. 1/16W 1.0K-JB (CZ57P)
RSA7	0700041M	CF. 1/16W 1.0K-JB (CZ57P)
RSA8	0700041M	CF. 1/16W 1.0K-JB (CZ57P)
RSA9	0700054M	CF. 1/16W 10K-JB (CZ57P)
RSC1	0100047M	CF. 1/8W 180-JB (CZ57P)
RSC2	0700041M	CF. 1/16W 1.0K-JB (CZ57P)
RSC3	0700041M	CF. 1/16W 1.0K-JB (CZ57P)
RSC4	0700041M	CF. 1/16W 1.0K-JB (CZ57P)
RSC5	0700041M	CF. 1/16W 1.0K-JB (CZ57P)
RSC6	0700041M	CF. 1/16W 1.0K-JB (CZ57P)
RSC7	0700041M	CF. 1/16W 1.0K-JB (CZ57P)
RSC8	0700027M	CF. 1/16W 100-JB (CZ57P)
RSC9	0700027M	CF. 1/16W 100-JB (CZ57P)
RSE1	0700054M	CF. 1/16W 10K-JB (CZ57P)
RSE2	0700054M	CF. 1/16W 10K-JB (CZ57P)
RSE4	0700041M	CF. 1/16W 1.0K-JB (CZ57P)
RSE5	0700041M	CF. 1/16W 1.0K-JB (CZ57P)
RSE6	0700041M	CF. 1/16W 1.0K-JB (CZ57P)
RSE7	0700041M	CF. 1/16W 1.0K-JB (CZ57P)
RSE8	0700041M	CF. 1/16W 1.0K-JB (CZ57P)
RSE9	0700041M	CF. 1/16W 1.0K-JB (CZ57P)
RSF2	0700041M	CF. 1/16W 1.0K-JB (CZ57P)
RSF3	0700041M	CF. 1/16W 1.0K-JB (CZ57P)
RSF6	0700041M	CF. 1/16W 1.0K-JB (CZ57P)
RSF7	0700041M	CF. 1/16W 1.0K-JB (CZ57P)
RSF8	0700041M	CF. 1/16W 1.0K-JB (CZ57P)
RSF9	0700041M	CF. 1/16W 1.0K-JB (CZ57P)
RSG1	0700041M	CF. 1/16W 1.0K-JB (CZ57P)
RSG2	0700054M	CF. 1/16W 10K-JB (CZ57P)
RSG3	0100047M	CF. 1/8W 180-JB (CZ57P)
RSG6	0700041M	CF. 1/16W 1.0K-JB (CZ57P)
RSG7	0700054M	CF. 1/16W 10K-JB (CZ57P)
RSH2	0700058M	CF. 1/16W 22K-JB (CZ57P)
RSH3	0700067M	CF. 1/16W 100K-JB (CZ57P)
RSH4	0700058M	CF. 1/16W 22K-JB (CZ57P)
RSH5	0700045M	CF. 1/16W 2.2K-JB (CZ57P)
RSH6	0700045M	CF. 1/16W 2.2K-JB (CZ57P)
RSH7	0700045M	CF. 1/16W 2.2K-JB (CZ57P)
RSH8	0700045M	CF. 1/16W 2.2K-JB (CZ57P)
RSH9	0700054M	CF. 1/16W 10K-JB (CZ57P)
RSJ1	0700054M	CF. 1/16W 10K-JB (CZ57P)
RSJ2	0700056M	CF. 1/16W 15K-JB (CZ57P)
RSJ3	0700051M	CF. 1/16W 5.6K-JB (CZ57P)
RSN1	0100041M	CF. 1/8W 100-JB
RSN2	0100041M	CF. 1/8W 100-JB
RSN3	0100041M	CF. 1/8W 100-JB
RSN4	0100041M	CF. 1/8W 100-JB
RSN5	0100041M	CF. 1/8W 100-JB
RSN6	0100041M	CF. 1/8W 100-JB
RSN7	0100041M	CF. 1/8W 100-JB(CZ58)
RSN8	0100041M	CF. 1/8W 100-JB (CZ58)
RSN9	0100041M	CF. 1/8W 100-JB (CZ58)
RSP1	0100041M	CF. 1/8W 100-JB (CZ58)
RSP2	0700061M	CF. 1/16W 33K-JB
RSP2	0700061M	CF. 1/16W 33K-JB (CZ57P)
RSP3	0700054M	CF. 1/16W 10K-JB
RSP3	0700054M	CF. 1/16W 10K-JB (CZ57P)
RSP4	0700045M	CF. 1/16W 2.2K-JB
RSP4	0700045M	CF. 1/16W 2.2K-JB (CZ57P)
RSP5	0113744M	CF. SRD1/2P-B 560-J (CZ58)
RSP6	0100089M	CF. 1/8W 10K-JB (CZ58)
RSP6	0110245S	MF. 1.0K-JS (CZ56/57/CY58)
RSP6	0110245S	MF. 1.0K-JS (CZ57P)
RT01	0110281S	MF. 33K-JS (CZ58)
RT01	0700045M	CF. 1/16W 2.2K-JB (CZ56/57/CY58)
RT01	0700045M	CF. 1/16W 2.2K-JB (CZ57P)
RT02	0700051M	CF. 1/16W 5.6K-JB (CZ58)
RT02	0700045M	CF. 1/16W 2.2K-JB (CZ56/57/CY58)
RT02	0700045M	CF. 1/16W 2.2K-JB (CZ57P)
RT03	0100089M	CF. 1/8W 10K-JB (CZ58)
RT03	0700064M	CF. 1/16W 56K-JB (CZ56/57/CY58)
RT03	0700064M	CF. 1/16W 56K-JB (CZ57P)
RT04	0700064M	CF. 1/16W 56K-JB (CZ56/57/CY58)

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SYMBOL NO.	PART NO.	PART DESCRIPTION
RT04	0700064M	CF. 1/16W 56K-JB (CZ57P)
RT05	0700058M	CF. 1/16W 22K-JB (CZ56/57/CY58)
RT05	0700058M	CF. 1/16W 22K-JB (CZ57P)
RT06	0700058M	CF. 1/16W 22K-JB (CZ56/57/CY58)
RT06	0700058M	CF. 1/16W 22K-JB (CZ57P)
RT07	0700032M	CF. 1/16W 220-JB (CZ56/57/CY58)
RT07	0700032M	CF. 1/16W 220-JB (CZ57P)
RT08	0700032M	CF. 1/16W 220-JB (CZ56/57/CY58)
RT08	0700032M	CF. 1/16W 220-JB (CZ57P)
RT09	0700041M	CF. 1/16W 1.0K-JB (CZ56/57/CY58)
RT09	0700041M	CF. 1/16W 1.0K-JB (CZ57P)
RT10	0700052M	CF. 1/16W 6.8K-JB (CZ56/57/CY58)
RT10	0700052M	CF. 1/16W 6.8K-JB (CZ57P)
RT11	0700041M	CF. 1/16W 1.0K-JB (CZ56/57/CY58)
RT11	0700041M	CF. 1/16W 1.0K-JB (CZ57P)
RT12	0700046M	CF. 1/16W 2.7K-JB (CZ56/57/CY58)
RT12	0700046M	CF. 1/16W 2.7K-JB (CZ57P)
RT13	0700046M	CF. 1/16W 2.7K-JB (CZ56/57/CY58)
RT13	0700046M	CF. 1/16W 2.7K-JB (CZ57P)
RT14	0700054M	CF. 1/16W 10K-JB (CZ56/57/CY58)
RT14	0700054M	CF. 1/16W 10K-JB (CZ57P)
RT15	0100065M	CF. 1/8W 1K-JB (CZ56/57/CY58)
RT15	0100065M	CF. 1/8W 1K-JB (CZ57P)
RT16	0700048M	CF. 1/16W 3.9K-JB (CZ56/57/CY58)
RT16	0700048M	CF. 1/16W 3.9K-JB (CZ57P)
RT17	0700046M	CF. 1/16W 2.7K-JB (CZ56/57/CY58)
RT17	0700046M	CF. 1/16W 2.7K-JB (CZ57P)
RT18	0700048M	CF. 1/16W 3.9K-JB (CZ56/57/CY58)
RT18	0700048M	CF. 1/16W 3.9K-JB (CZ57P)
RT19	0700029M	CF. 1/16W 150-JB (CZ56/57/CY58)
RT19	0700029M	CF. 1/16W 150-JB (CZ57P)
RT20	0700054M	CF. 1/16W 10K-JB (CZ56/57/CY58)
RT20	0700054M	CF. 1/16W 10K-JB (CZ57P)
RT21	0700067M	CF. 1/16W 100K-JB (CZ56/57/CY58)
RT21	0700067M	CF. 1/16W 100K-JB (CZ57P)
RT22	0700041M	CF. 1/16W 1.0K-JB (CZ56/57/CY58)
RT22	0700041M	CF. 1/16W 1.0K-JB (CZ57P)
RT23	0700052M	CF. 1/16W 6.8K-JB (CZ56/57/CY58)
RT23	0700052M	CF. 1/16W 6.8K-JB (CZ57P)
RT24	0700041M	CF. 1/16W 1.0K-JB (CZ56/57/CY58)
RT24	0700041M	CF. 1/16W 1.0K-JB (CZ57P)
RT25	0700046M	CF. 1/16W 2.7K-JB (CZ56/57/CY58)
RT25	0700046M	CF. 1/16W 2.7K-JB (CZ57P)
RT26	0114164M	CF. SRD 1/4 P 1.3K-J (CZ56/57/CY58)
RT26	0114164M	CF. SRD 1/4 P 1.3K-J (CZ57P)
RV01	0700067M	CF. 1/16W 100K-JB
RV02	0700059M	CF. 1/16W 27K-JB
RV04	0700035M	CF. 1/16W 390-JB
RV06	0700034M	CF. 1/16W 330-JB
RV07	0700057M	CF. 1/16W 18K-JB
RV08	0700067M	CF. 1/16W 100K-JB
RV09	0700033M	CF. 1/16W 270-JB
RV10	0700033M	CF. 1/16W 270-JB
RV11	0700042M	CF. 1/16W 1.2K-JB
RV12	0700045M	CF. 1/16W 2.2K-JB
RV13	0700058M	CF. 1/16W 22K-JB
RV16	0113742M	CF. 1/2W 470-JB
RV17	0700046M	CF. 1/16W 2.7K-JB
RV19	0700025M	CF. 1/16W 68-J
RV20	0700041M	CF. 1/16W 1.0K-JB
RV21	0113701M	CF. SRD1/2P-B 10-J
RV22	0100039M	CF. 1/8W 82-JB
RV23	0100039M	CF. 1/8W 82-JB
RV24	0114165M	CF. SRD 1/4 PF 1.5K-J
RV25	0100069M	CF. 1/8W 1.5K-JB
RV26	0114143M	CF. 1/4W 330-JB
RV27	0114221M	CF. 1/4 PB 68K-J
RV28	0114221M	CF. 1/4 PB 68K-J
RV29	0100053M	CF. 1/8W 330-JB
RV30	0113776M	CF. SRD1/2P-B 12K-J
RV31	0113716M	CF. SRD1/2P-B 43-J
RV32	0113716M	CF. SRD1/2P-B 43-J
RV33	0113686M	CF. 1/2W 2.7-J
RV34	0113686M	CF. 1/2W 2.7-J
RV35	0110229S	MF. 220-JS
RV36	0110135S	MF. 390-JS
RV37	0110132S	MF. 300-JS
RV38	0700049M	CF. 1/16W 4.7K-JB
RV39	0700051M	CF. 1/16W 5.6K-JB
RV40	0700061M	CF. 1/16W 33K-JB
RV41	0700036M	CF. 1/16W 470-JB
RV42	0700043M	CF. 1/16W 1.5K-JB
RV43	0700035M	CF. 1/16W 390-JB
RV44	0700043M	CF. 1/16W 1.5K-JB
RV45	0700067M	CF. 1/16W 100K-JB
RV46	0700067M	CF. 1/16W 100K-JB
RV47	0700046M	CF. 1/16W 2.7K-JB
RV48	0700041M	CF. 1/16W 1.0K-JB
RV49	0700041M	CF. 1/16W 1.0K-JB
RV50	0700035M	CF. 1/16W 390-JB
RV51	0700056M	CF. 1/16W 15K-JB
RVM1	0100091M	CF. 1/8W 12K-JB
RX01	0700059M	CF. 1/16W 27K-JB (CZ58/CY58)
RX02	0700067M	CF. 1/16W 100K-JB (CZ58/CY58)
RX03	0700027M	CF. 1/16W 100-JB (CZ58/CY58)
RX04	0700039M	CF. 1/16W 820-JB (CZ58/CY58)
RX05	0700036M	CF. 1/16W 470-JB (CZ58/CY58)
RX06	0700043M	CF. 1/16W 1.5K-JB (CZ58/CY58)
RX07	0700027M	CF. 1/16W 100-JB (CZ58/CY58)
RX08	0700039M	CF. 1/16W 820-JB (CZ58/CY58)
RX12	0700043M	CF. 1/16W 1.5K-JB (CZ58/CY58)
RX13	0700039M	CF. 1/16W 820-JB (CZ58/CY58)
RX14	0700063M	CF. 1/16W 47K-JB (CZ58/CY58)
RX15	0700036M	CF. 1/16W 470-JB (CZ58/CY58)
RX16	0700033M	CF. 1/16W 270-JB (CZ58/CY58)
RX17	0100125M	CF. 1/8W 330K-JB (CZ58/CY58)
RX18	0700056M	CF. 1/16W 15K-JB (CZ58/CY58)
RX19	0700041M	CF. 1/16W 1.0K-JB (CZ58/CY58)
RX1N	0700041M	CF. 1/16W 1.0K-JB (CZ58/CY58)
RX20	0187054M	CF. 1/16W 360-JB (CZ58/CY58)
RX21	0700051M	CF. 1/16W 5.6K-JB (CZ58/CY58)
RX22	0700041M	CF. 1/16W 1.0K-JB (CZ58/CY58)
RX23	0700035M	CF. 1/16W 390-JB (CZ58/CY58)
RX24	0700054M	CF. 1/16W 10K-JB (CZ58/CY58)
RX25	0700054M	CF. 1/16W 10K-JB (CZ58/CY58)
RX26	0100130M	CF. 1/8W 510K-JB (CZ58/CY58)
RX27	0700047M	CF. 1/16W 3.3K-JB (CZ58/CY58)
RX28	0700039M	CF. 1/16W 820-JB (CZ58/CY58)
RX29	0700027M	CF. 1/16W 100-JB (CZ58/CY58)
RX30	0700039M	CF. 1/16W 820-JB (CZ58/CY58)
RX31	0700041M	CF. 1/16W 1.0K-JB (CZ58/CY58)
RX32	0700039M	CF. 1/16W 820-JB (CZ58/CY58)
RX33	0700041M	CF. 1/16W 1.0K-JB(CZ58/CY58)
RX34	0700057M	CF. 1/16W 18K-JB (CZ58/CY58)
RX35	0700064M	CF. 1/16W 56K-JB (CZ58/CY58)
RX36	0700036M	CF. 1/16W 470-JB (CZ58/CY58)
RX37	0700041M	CF. 1/16W 1.0K-JB (CZ58/CY58)
RX38	0700033M	CF. 1/16W 270-JB (CZ58/CY58)
RX39	0700054M	CF. 1/16W 10K-JB (CZ58/CY58)
RX40	0700027M	CF. 1/16W 100-JB (CZ58/CY58)
RX41	0700039M	CF. 1/16W 820-JB (CZ58/CY58)
RX42	0700041M	CF. 1/16W 1.0K-JB (CZ58/CY58)
RX43	0700043M	CF. 1/16W 1.5K-JB (CZ58/CY58)
RX44	0700041M	CF. 1/16W 1.0K-JB (CZ58/CY58)
RX45	0700062M	CF. 1/16W 39K-JB (CZ58/CY58)
RX46	0700054M	CF. 1/16W 10K-JB (CZ58/CY58)
RX47	0700036M	CF. 1/16W 470-JB (CZ58/CY58)
RX48	0700034M	CF. 1/16W 330-JB (CZ58/CY58)
RX49	0700027M	CF. 1/16W 100-JB (CZ58/CY58)
RX50	0700039M	CF. 1/16W 820-JB (CZ58/CY58)
RX51	0700047M	CF. 1/16W 3.3K-JB (CZ58/CY58)
RX52	0700047M	CF. 1/16W 3.3K-JB (CZ58/CY58)
RX53	0187088M	CF. 1/16W 9.1K-JB (CZ58/CY58)
RX54	0700027M	CF. 1/16W 100-JB (CZ58/CY58)
RX55	0700027M	CF. 1/16W 100-JB (CZ58/CY58)
RX56	0700027M	CF. 1/16W 100-JB (CZ58/CY58)

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SYMBOL NO.	PART NO.	PART DESCRIPTION
RX57	0700054M	CF. 1/16W 10K-JB (CZ58/CY58)
RX58	0100115M	CF. 1/8W 120K-JB (CZ58/CY58)
RY01	0700027M	CF. 1/16W 100-JB
RY02	0700027M	CF. 1/16W 100-JB
RY03	0700027M	CF. 1/16W 100-JB
RY04	0700041M	CF. 1/16W 1.0K-JB
RY05	0700027M	CF. 1/16W 100-JB
RY06	0700027M	CF. 1/16W 100-JB
RY07	0700027M	CF. 1/16W 100-JB
RY08	0700041M	CF. 1/16W 1.0K-JB
RY09	0700041M	CF. 1/16W 1.0K-JB
RY10	0700041M	CF. 1/16W 1.0K-JB
RY11	0700041M	CF. 1/16W 1.0K-JB
RY12	0700027M	CF. 1/16W 100-JB
RY13	0700027M	CF. 1/16W 100-JB
RY14	0700027M	CF. 1/16W 100-JB
RY15	0700027M	CF. 1/16W 100-JB
RY31	0100038M	CF. 1/8W 75-JB
RY32	0100038M	CF. 1/8W 75-JB
RY33	0100099M	CF. 1/8W 27K-JB
RY34	0100099M	CF. 1/8W 27K-JB
RY35	0100038M	CF. 1/8W 75-JB
RY36	0700027M	CF. 1/16W 100-JB (CZ56/57/58)
RY37	0700027M	CF. 1/16W 100-JB (CZ56/57/58)
RY38	0700041M	CF. 1/16W 1.0K-JB (CZ56/57/58)
RY39	0700034M	CF. 1/16W 330-JB
RY40	0114141M	CF. 1/4W 270-JB
RY41	0100038M	CF. 1/8W 75-JB
RY42	0100113M	CF. 1/8W 100K-JB
RY44	0700041M	CF. 1/16W 1.0K-JB
RY45	0700039M	CF. 1/16W 820-JB
RY70	0187038M	CF. 1/16W 75-J (CZ58/CZ57)
RY70	0100038M	CF. 1/8W 75-JB (CZ58/CZ57)
RY71	0187038M	CF. 1/16W 75-J (CZ58/CZ57)
RY71	0100038M	CF. 1/8W 75-JB (CZ58/CZ57)
RY74	0100101M	CF. 1/8W 33K-JB (CZ58/CZ57)
		SWITCHES/RELAYS
S0501	2633321	5KEY TACT SWITCH (CZ56)
S0502	2632901	1P TACT SWITCH (CZ56)
S401	FD00041	SLIDE SWITCH
S851	2622571	SWITCH
⚠ S901	2641222	POWER RELAY
SM01	2632851	5KEY TACT SWITCH (CY58)
SM01	2632901	1P TACT SWITCH (CZ58/CZ57)
SM02	2632901	1P TACT SWITCH (CY58)
SM02	2632851	5KEY TACT SWITCH (CZ58/CZ57)
SM03	2632901	1P TACT SWITCH (CY58)
SM03	2633321	5KEY TACT SWITCH (CZ58/CZ57)
		SPEAKERS
⚠ SP451	2735335	OTHER MAGNETIC PARTS (35UX70B/32UX8B)
⚠ SP451	2735336	MGZ-SDX-SP ASS'Y (A3)(35UX80B)
⚠ SP451	2412921	SPEAKER 160DG (35TX79K)
⚠ SP452	2735335	OTHER MAGNETIC PARTS (35UX70B/32UX8B)
⚠ SP452	2735336	MGZ-SDX-SP ASS'Y (A3) (35UX80B)
⚠ SP452	2412921	SPEAKER 160DG (35TX79K)
⚠ SP453	2414607	SPEAKER 6X12 (35UX80B)
⚠ SP453	2414941	SPEAKER 50TW (35TX79K)
⚠ SP454	2414941	SPEAKER 50TW (35TX79K)
		TRANSFORMERS
⚠ T701	2274353	TRANS.-H. DRIVE
⚠ T702	BW00481	FBT-HFL1735G (A4LXU) (CZ58)
⚠ T702	2437095	HFL1735G (CZ56/57/CY58)
T901	2124361	DC NOISE FILTER
⚠ T902	BT00301	COIL
T903	2124362	DC NOISE FILTER
T961	BT00311	COIL SWT PT-EE35F11U-(CZ58)
⚠ T991	BT00221	POWER TRANSFORMER (CZ56/57/CY58)
⚠ T991	2215911	TRANS.-POWER (CZ56/57/CY58)
TDF1	BW00371	A4 DF TRANS. (CZ56/57/58)
		COLOR PICTURE TUBE
⚠ V1	2471582	CPT A89LFL50X01 (V) (35TX79K)
⚠ V1	DE00861	CPT A89LED50X02 (V) (35UX70B)
⚠ V1	DE00881	CPT A89AGF11X10 (35UX80B)
⚠ V1	DE00961	CPT A80LJF30X (32V)
		CRYSTALS/FILTERS
X007	2168831	CRYSTAL CSA12.0MTZ
X301	2786685	X'TAL CSB500F25
X501	2791505	CRYSTAL HC-491U 3.58MHZ
XDF1	HP00161	DF UNIT(CZ57)
XDF1	HP00281	W-FOCUS UNIT(CZ58)
XS01	2786585	CRYSTAL RESONATOR 8.000MHZ
XS01	2786585	CRYSTAL RESONATOR 8.000MHZ (CZ57P)
XX01	2791505	CRYSTAL HC-491U 3.58MHZ (CZ58/CY58)
XX02	BJ00121	COIL (LC FILTER) TYV3 3.58MHZ (CZ58/CY58)
XX02	BJ00141	COIL (LC FILTER) 3.58MHZ (CZ58/CY58)
XX03	BJ00111	COIL (LC FILTER) TXV7 6MHZ (CZ58/CY58)
XX03	BJ00112	COIL (LC FILTER) 6MHZ (CZ58/CY58)
		MISCELLANEOUS PARTS
#01	NT00511	A4LXU POWER PWB HOLDER
#01	NT00521	SURROUND PWB HOLDER (A4LXU) (EXCEPT CZ56)
#010	H920182	VELCRO (32UX8B)
#010	61013B01	SWIVEL (35TX79K)
#012	61009942	"NUT 1/4" 20X3/8 (35TX79K)
#013	H410311	MAGNETIC LOU (35TX79K)
#020	H840011	GLIDE PIN (35TX79K)
#021	3701202	PWB HOLDER G7-A PA (CY58)
#060	QD01561	FRAME 35UX80B
#061	QD01562	FRAME 35UX70B
#062	PH02551	SP GRILLE 35UX80B
#063	4159424	SCREW 3X10 TAPPING WITH WASHER STEEL
#066	3875771	LATCH 4T02 NYLON (35UX70/80B)
#068	PH02511	DOOR (35UX70/80B)
#069	3760031	SMALL PIECE (S-2) FOR CABINET(35UX70/80B)
#070	3177521	GRIP ASSY L (35UX70/80B)
#071	3177522	GRIP ASSY R (35UX70/80B)
#072	3821592	GRIP COVER (35UX70/80B)
#073	3177393	GRIP L (35UX70/80B)
#074	3177403	GRIP R (35UX70/80B)
#075	MN00561	AR HORN SPACER (A) (35UX70/80B)
#076	MN00562	AR HORN SPACER (B) (35UX70/80B)
#077	PH02521	SP SHEET (35UX70/80B)
#078	PH02522	SP SHEET (R) (35UX70/80B)
#080	PC01191	BUTTON (35UX70/80B)
#084	PH02541	LENS (35UX70/80B)
#086	PH02531	INDOOR PLATE (35UX70/80B)
#090	3487425	HITACHI BADGE (35UX70/80B)
#103	H420631	FRAME SUPPORT BRACKET (35TX79K)
#105	NT00531	TERMINAL BOARD 31V (A4LXU) (CY58)
#106	NT00532	TERMINAL BOARD 35V (A4LXU) (CZ56/57/58)
#116	3850262	CHASSIS RAIL 27500-A (CONSOLE) (35TX79K)
#117	3850272	CHASSIS RAIL 27500-B (CONSOLE) (35TX79K)
#130	4492661	CHASSIS FIXING METAL (F) SECC (35TX79K)
#145	3768982	BC STOPPER N (35TX79K)
#150	QD00264	FRAME (32UX8B)
#160	3739671	BS CORD HOLDER NYLON6
#200	QD01571	BACK COVER (35UX70/80B)
#200	PH00811	DOOR (32UX8B)
#202	4519503	3X12 B TAPPING SCREW SWCH15A
#202	3727972	POWER CORD HANGER (35UX70/80B)
#203	4519503	3X12 B TAPPING SCREW SWCH15A
#210	4159427	3X10 SCREW WITH WASHER STEEL
#220	4519503	3X12 B TAPPING SCREW SWCH15A
#225	3875771	LATCH 4T02 NYLON (32UX8B)
#225	4520771	HEXAGON HEAD TAPPING SCREW4* 18 (35TX79K)

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SYMBOL NO.	PART NO.	PART DESCRIPTION
#250	4520232	4X16 D TAPPING SCREW SWCH16A
#250	3487425	HITACHI BADGE (32UX8B)
#250	3727972	POWER CORD HANGER (35TX79K)
#260	3874421	BRACKET (35TX79K) PS
#283	3273872	BUTTON (35TX79K)
#284	3487421	HITACHI BADGE 55 (S) (35TX79K)
#285	3204184	R/C LENS (35TX79K)
#286B	PH01061	DECO PANEL R (35TX79K)
#287B	PH01062	DECO PANEL L (35TX79K)
#288B	3828164	INDOOR PLATE (35TX79K)
#293	3798068H	BUTTON CUSHION (35TX79K)
#296	3106403	FRONT FRAME (35TX79K)
#297B	3821953	DOOR (35TX79K)
#298	3875771	LATCH 4T02 NYLON (35TX79K)
#300	4520883	3*12 SCREW WITH WASHER
#300	4778203	LABEL BASE (35UX70/80B) PVC
#300	H310884	R/C LENS (32UX8B)
#360	H310893	SP SHEET (32UX8B)
#400	4329271	WASHER (F) (CZ58)
#400	PH00911	INDOOR PLATE (32UX8B)
#400	84000002	METAL CATCH 1 (35TX79K)
#405	3871481	SUPPORT REAR BOARD PVC (35TX79K)
#410	4522901	6 NUT (F)(CZ58)
#420	84000003	METAL CATCH (35TX79K)
#440	63066861	FLIPPER DOOR SLIDE(35TX79K)
#460	63068861	PIVOT ROLLER (35TX79K)
#480	61020001	DUOMATIC HINGE (35TX79K)
#500	61030001	DUOMATIC MOUNTING PLATE (35TX79K)
#521	3164046	COVER (32UX8B)
#530	8440444	SP HIMERON C29-BV20 (32UX8B)
#601	3727972	POWER CORD HANGER (32UX8B)
#602	3163103	CPT PROTECTOR CUP (35TX79K)
#607	H520363	BACKBOARD (35TX79K)
#621	H512201	TERMINAL BLOCK SPACER (35TX79K)
#660	H310121	PLASTIC RIVET (35TX79K)
#680	H461171	PATENT AND TELESONICS LABEL (32UX8B)
#887	H390031	CUSHION-NEOPRENE (32UX8B)
#889	8441611	HIMERON SHEET 240x18 (32UX8B)
#900	PC00341	BUTTON (32UX8B)
#906	PH02722	TERMINAL LABEL 80B (CZ58)
#907	PH02721	TERMINAL LABEL A4LXU (CZ56/57/CY58)
#908	PH02731	TERMINAL LABEL 2RF (A4LXU) (CZ58)
#909	PH02732	TERMINAL LABEL 2RF70 (CZ56/57)
E203	2784243	DRY BATTERY SUM-3 (G)
E401	2998584	CONN. W/WIRE MINI 3J
E602	2908402	CRT EARTH WIRE (35V)
E602	2994511	CRT EARTH WIRE (32V)
E603	2771461	EDGE MAGNET
⚠ E604	2775082	MAGNET VM (32V)
E851	EY00411	W-FOCUS CPT SOCKET (CZ58)
E851	2698675	SOCKET CPT SOCKET (15.24) (CZ56/57)
E851	2953344	CPT SOCKET (CY58)
⚠E901	2972841	AC POWER CORD (FILTER IN)
EAC	2976985	CONNECTOR CO-02C-C7R5-102LOCK
EANT	HC00022	ANT-SW UNIT (CZ58)
EDF	EF02671	CONNECTOR CO-03C-A5R0-511EDF (CZ56/57/58)
EDF2	2956487	CONNECTOR CO-01C-A0R0-551 (CZ56/57/58)
EF	2956484	CONN. W/WIRE MINI 1J (L80) W/AMP IN (CZ56/57)
EF0C	2692462	CONN. 01C-N0R0 L=390 FOCUS (CZ56/57/58)
EF1	2973734S	CONN. W/WIRE SEH 4J L330 (C-C) (CZ57/58)
EF2	2973764S	CONN. W/WIRE SEH 5J L330 (C-C) (CZ57/58)
EF901	2720641	FUSE HOLDER
EF902	2720641	FUSE HOLDER
EFJ	EF02751	7J CON.-5J/4J-W CONN.-390 (EH) (CZ56)
EFV	2973944S	CONN. W/WIRE SEH 11J L330 (C-C) (CZ56/57/58)
EG	2663328	2J MINI-CONNECTOR WITH WIRE
ENH2	EF02661	CONNECTOR CO-05C-A5R0-561ENH2
ENH3	EF02601	CONNECTOR CO-06C-B2R5-431ENH3
ENS1	2974128S	SEH 5J CONNECTOR 470
EP11	2974223S	CONN.W/WIRE 8J SEH L680 (C-B)
EP12	EF02651	CONNECTOR CO-07C-B2R5-391EPI2
ESA1	EF02891	CO-15C-B2R5-181 (CZ57P)
ESA2	EF02891	CO-15C-B2R5-181 (CZ57P)
EST1	2974215S	CONNECTOR (SEH08C-B1007A361) (CZ58)
ESU1	EF02641	CONNECTOR CO-12C-B2R5-681ESU1
ESU2	EF02631	CONNECTOR CO-11C-B2R5-681ESU2
ESU3	2974098S	CONN.W/WIRE 4J SEH L470 (C-B)
ESU4	2974128S	SEH 5J CONNECTOR 470 (CZ58)
ESU5	EF03161	2J BOARD-IN 2J EH CONNECTOR (CZ57P)
ETP15	2122652M	FERRITE CORE
EVM1	EF02602	CONNECTOR CO-06C-B2R5-561EVM1
EVM2	2956485	CONNECTOR CO-01C-A—471
EVM3	2976645	CONNECTOR CO-02C-N2R5-241 (35V)
EY1	2974191S	CONN. W/WIRE SEH 7J L560 (C-B)
EY2	EF02621	CONNECTOR CO-05C-B2R5-561EY2
J01	2983116	3P PIN JACK S.TERMINAL (CZ56)
J301	2672936	13P PIN JACK
J402	ER00122	SPEAKER JACK (2LINE)
JF30	2673601	US 13PIN JACK (CY58)
JSIN	2693853	TERMINAL (TERMINAL BOARD)
JSL	2958713	CONN. W/WIRE MINI 5JW/FASTEN (3570/80B/328B)
JSL	2958715	CON-M105SCF1007A152 (35TX79K)
JSR	2958387	CONN. W/WIRE MINI 4JW/FASTEN (3570/80B/328B)
JSR	EF00191	CON-04C-F2R5-152 (35TX79K)
JY02	ES00022	3P (SW) PIN JACK WITH S (CZ58/CZ57)
N001	3816161	HOLDER G9 EE (CZ56)
N101	3443352	SHIELD CASE AP53 A2 TC-30
N101	3785502	V LOCK 11.5 (35UX70/80B)
N101	3785511	V LOCK 16 (32UX8B)
N101	0544510	TERMINAL PIECE (35TX79K)
N101	3728272	PURSE LOCK 8 (35TX79K)
N102	3443361	SHIELD PLATE AP33 A TC-30
N102	3785502	V LOCK 11.5 (35UX70/80B)
N102	3785522	V LOCK 20 (32UX8B)
N102	EK00011	LEAD WIRE UL1007-24
N102	3785502	V LOCK 11.5 (35TX79K)
N103	3785502	V LOCK 11.5 (35UX70/80B)(32UX8B)
N103	EK00012	LEAD WIRE UL1007 AWG24 PINK (35TX79K)
N104	3785502	V LOCK 11.5 (35UX70/80B)
N104	3785511	V LOCK 16 (32UX8B)
N104	3785522	V LOCK 20 (35TX79K)
N105	3785502	V LOCK 11.5 (35UX70/80B)
N105	3705232	ANODE CLAMPER (32UX8B)
N106	3763751	SK BINDER (35UX70/80B)
N106	3785511	V LOCK 16 (32UX8B)
N107	3763751	SK BINDER (35UX70/80B)
N107	3785502	V LOCK 11.5 (32UX8B)
N108	3763751	SK BINDER (35UX70/80B)
N108	3785511	V LOCK 16 (32UX8B)
N108	3705232	ANODE CLAMPER (35TX79K)
N109	3763751	SK BINDER (35UX70/80B)
N109	3700342	WIRE CLAMP (32UX8B)
N110	3763751	SK BINDER (35UX70/80B)
N110	3785502	V LOCK 11.5 (32UX8B)
N111	3785502	V LOCK 11.5 (32UX8B)
N112	3705232	ANODE CLAMPER (35UX70/80B)
N120	4690171	CAUTION LABEL C (F) (35UX70/80B) (32UX8B)
N193	3446473	HEATSINK H30 P10
N193A	4520881	M3*8 SCREW WITH WASHER
N1M1	3875341	LEAD CLAMPER (CZ56/57/58)
N401	QN01004	SERVICEMAN WARNING LABEL A (35UX70B)
N401	QN01014	SERVICEMAN WARNING LABEL A (F) (35UX70B)
N401B	QN01005	SERVICEMAN WARNING (35TX79K)
N402	3442022	SOUND HEAT SINK 2CH
N402A	4520883	3*12 SCREW WITH WASHER
N601	4615641	WEDGE (32V)
N606	3333922	EARTH SPRING SUS. (35V)
N606	3330941	EARTH SPRING (32V)
N607	3763751	SK BINDER (35V)
N607A	3763751	SK BINDER(32V)
N608	3763752	SK BINDER 200 NYLON 66
N610	2772981	FERRITE SHEET ASS'Y
N611	2772211	MAG. PIECE (32V)
N612	2956801	EARTH RING
N613	4621186	CUSHION 2908 CR (35V)
N620	3446862	VERTICAL HEAT SINK M1LXU

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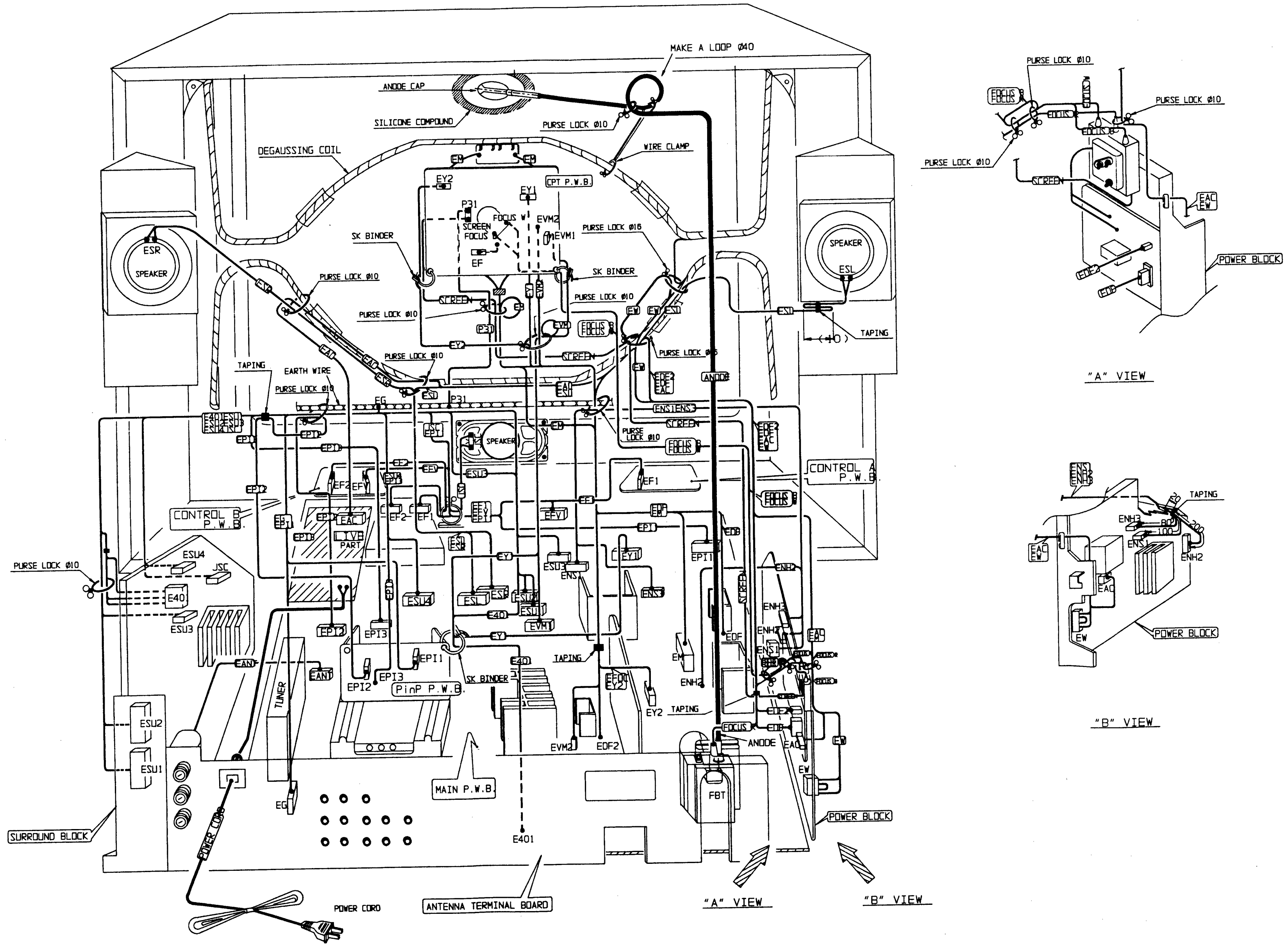
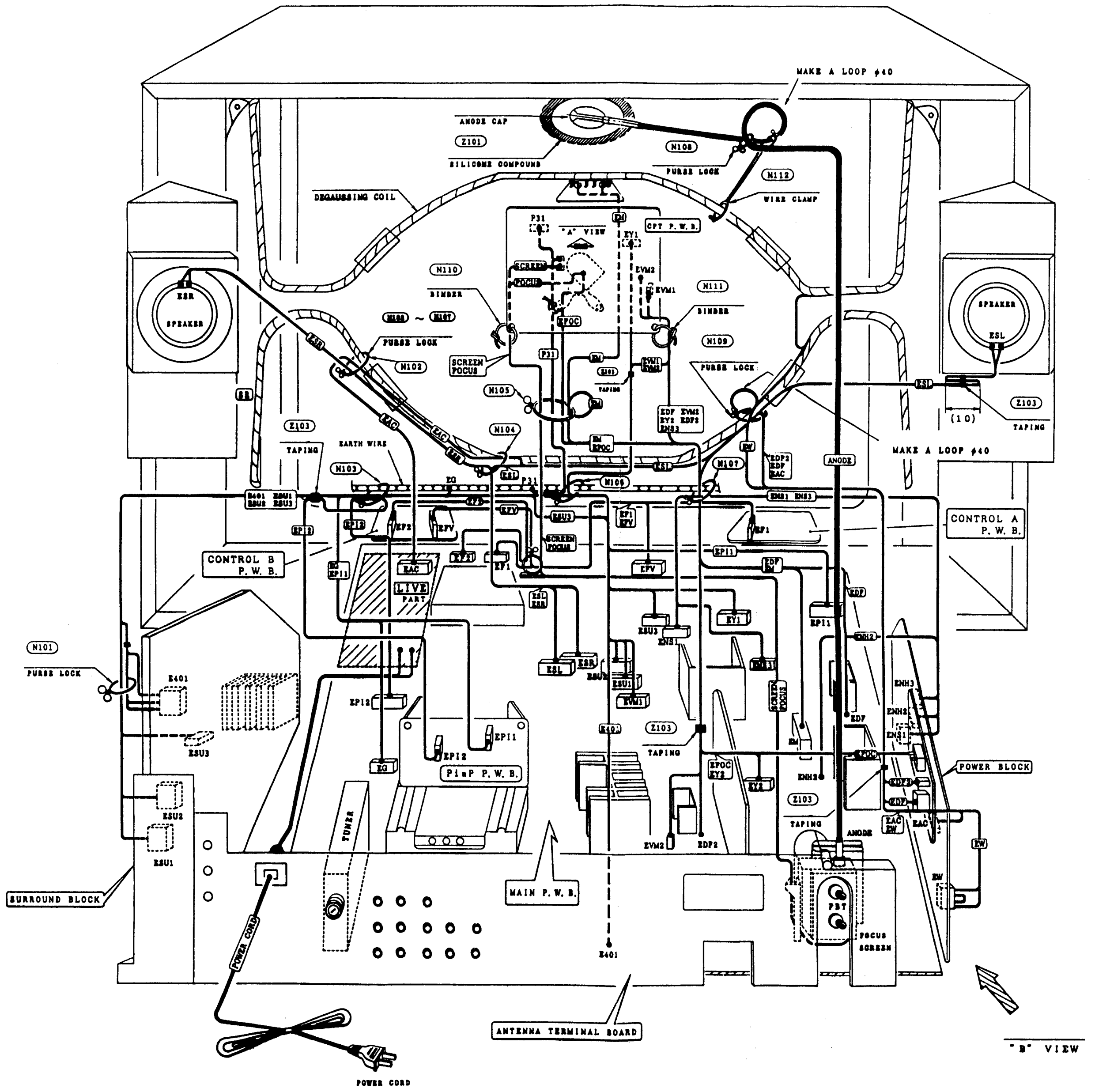
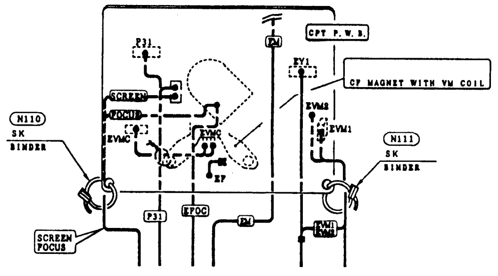
SYMBOL NO.	PART NO.	PART DESCRIPTION
N620A	4520881	M3*8 SCREW WITH WASHER
N620B	8821234	NUT-3
N711	4327812	F55 H.HEAT SINK
N711A	4514061	SCREW FLANGED 3*12
N711B	8821234	NUT-3
N711C	8813124	SPRING WASHER-3
N711D	4518771	SCREW 3X10 TAPPING WITH WSR STEEL
N714	3445563	HEAT SINK A3LXU
N714A	4520881	M3*8 SCREW WITH WASHER
N720	4276993	VERTICAL HEAT SINK
N720A	4520881	M3*8 SCREW WITH WASHER
N9N1	3446475	HEAT SINK H50 P10 (CZ58)
N9N3	4348491	G8 HEAT SINK (CZ56/57/CY58)
N9PWB	9413926	SILICON RUBBER
NB	4348491	G8 HEAT SINK
ND91	3446134	POWER HEAT SINK A4LXU
ND91A	4520881	M3*8 SCREW WITH WASHER (CZ56/57/CY58)
ND91A	4520881	M3*8 SCREW WITH WASHER
ND97A	4520881	M3*8 SCREW WITH WASHER (CZ58)
ND97A	4520881	M3*8 SCREW WITH WASHER (CZ58)
NE901	3772201	AC CORD HOLDER NYLON
NHL	4107512	A1LXU1 PWB METAL L TC-30 (CZ56/57/CY58)
NHL	4107513	A4LXU PWB METAL L (CZ58)
NHR	4107502	PWB METAL R (A1) TC-30
NI71	4276993	VERTICAL HEAT SINK
NI71A	4520881	M3*8 SCREW WITH WASHER
NMZ1	3816161	HOLDER G9 EE (CZ58/CZ57/CY58)
NQ91	3446134	POWER HEAT SINK A4LXU
NQ91A	4520881	M3*8 SCREW WITH WASHER
NQ96A	4520881	M3*8 SCREW WITH WASHER (CZ58)
NQS1	3446475	HEAT SINK H50 P10 (CZ58)
NQS3	4348491	G8 HEAT SINK (CZ56/57/CY58)
NQS3	4348491	G8 HEAT SINK (CZ57P)
NQV09	3446473	HEATSINK H30 P10
NQV09A	4520883	3*12 SCREW WITH WASHER
NQV10	3446473	HEATSINK H30 P10
NQV10A	4520883	3*12 SCREW WITH WASHER
NS01	MC00131	SURROUND HEAT SINK 3CH A6063S-T5
NS01	MC00131	SURROUND HEAT SINK 3CH A6063S-T5(CZ57P)
NS01A	4520883	3*12 SCREW WITH WASHER
NS01A	4520883	3*12 SCREW WITH WASHER (CZ57P)
NSN1	3446475	HEAT SINK H50 P10 (CZ58)
NSN1A	4520881	M3*8 SCREW WITH WASHER (CZ58)
NT72	8821114	"NUT,3"
NT72A	4243445	G51 INSULATION WASHER PL-11T
NT72B	8711412	SCREW-3X12 PAN HEAD
P11	2663821	2P SUB MINI PLUG PIN
P12	2663821	2P SUB MINI PLUG PIN
P31	2661751	2P PLUG PIN WITH BASE
P401	2661752	3P PLUG PIN WITH BASE
P401	2661752	3P PLUG PIN WITH BASE (CZ57P)
P65A	ED00562	CP-TAC-L05X-A1
P65B	ED00502	CP-TAC-L05P-A1
P66A	ED00561	CP-TAC-L04X-A1
P66B	ED00501	CP-TAC-L04P-A1
P901	2782611	CENTER PIN
P902	2782611	CENTER PIN
PAC	2723091	PLG-02P5R0VPWB ZIF
PAC2	2723091	PLG-02P5R0VPWB ZIF
PANT	2663821	2P SUB MINI PLUG PIN (CZ58)
PCXA	ED00572	CP-TAC-L15X-A1 (CZ58/CY58)
PCXB	ED00512	CP-TAC-L15P-A1 (CZ58/CY58)
PCXB	ED00512	CP-TAC-L15P-A1 (CZ58/CY58)
PDBA	ED00566	CP-TAC-L10X-A1
PDBB	ED00506	CP-TAC-L10P-A1
PDF	2661752	3P PLUG PIN WITH BASE (CZ58/CZ57)
PDF2	2661756	1P PLUG PIN WITH BASE (CZ56/57/58)
PF	2665271	3P PLUG PIN WITH BASE (CZ56/57)
PF1A	2902263	PLUG PIN SUB MINI 4P (CZ58/CZ57)
PF1B	2902243	PLUG PIN SUB MINI 4P (CZ58/CZ57)
PF1B	2902263	PLUG PIN SUB MINI 4P (CZ58/CZ57)
PF2A	2902264	PLUG PIN SUB MINI 5P (CZ56/57/58)
PF2B	2902265	PLUG PIN SUB MINI 6P (CZ58/CZ57)
PF2B	2902264	PLUG PIN SUB MINI 5P (CZ58/CZ57)
PFJ	2902246	PLUG PIN SUB MINI 7P (CZ56)
PFV	2902251	11P PLUG PIN (CZ56)
PFVA	2902271	PLUG PIN SUB MINI11P (CZ56/57/58)
PFVB	2902271	PLUG PIN SUB MINI11P (CZ58/CZ57)
PFVB	2902271	PLUG PIN SUB MINI11P (CZ58/CZ57)
PG	2661751	2P PLUG PIN WITH BASE
PIFA	ED00563	CP-TAC-L06X-A1
PIFB	ED00503	CP-TAC-L06P-A1
PM	2665272	4P PLUG PIN WITH BASE
PMTA	ED00562	CP-TAC-L05X-A1
PMTB	ED00502	CP-TAC-L05P-A1
PNH2	2663134	5P PLUG PIN WITH BASE
PNH2	2661754	5P PLUG PIN WITH BASE (32V)
PNH3	2902265	PLUG PIN SUB MINI 6P
PNS1	2902264	PLUG PIN SUB MINI 5P
PP11	2902267	PLUG PIN SUB MINI 8P
PP12	2902266	PLUG PIN SUB MINI 7P
PSA1	2902275	PLG-15P2R5VPWB (CZ57P)
PSA2	2902275	PLG-15P2R5VPWB (CZ57P)
PSC1	2661753	4P PLUG PIN WITH BASE (CZ58)
PSCA	ED00566	CP-TAC-L10X-A1
PSCB	ED00506	CP-TAC-L10P-A1
PSL	2661754	5P PLUG PIN WITH BASE
PSR	2661753	4P PLUG PIN WITH BASE
PSU1	2902272	PLUG PIN SUB MINI 12P
PSU1	2902272	PLUG PIN SUB MINI 12P (CZ57P)
PSU2	2902271	PLUG PIN SUB MINI11P
PSU2	2902271	PLUG PIN SUB MINI11P (CZ57P)
PSU3	2902263	PLUG PIN SUB MINI 4P
PSU3	2902263	PLUG PIN SUB MINI 4P (CZ57P)
PSU4	2902264	PLUG PIN SUB MINI 5P (CZ58)
PSU4	2902264	PLUG PIN SUB MINI 5P (CZ57P)
PVM1	2902265	PLUG PIN SUB MINI 6P
PVM2	2661756	1P PLUG PIN WITH BASE
⚠ PVMC	2902261	PLUG PIN SUB MINI 2P
PW	2661753	4P PLUG PIN WITH BASE
PY1	2902266	PLUG PIN SUB MINI 7P
PY2	2902264	PLUG PIN SUB MINI 5P
U002	HP00091	PinP UNIT KC-010S (CZ58)
U002	HP00092	PinP UNIT KC-011S (CZ56/57/CY58)
U101	2428541	TUNER ET-351A (CZ58)
U101	2428681	TUNER ET-352A (CZ56/57/CY58)
U301	CW00021	HYBRID IC (331KNT) (CZ56/CZ57)
Z01	9414017	SILICONE COMPOUND (G-746) (CZ57P)

WIRING DRAWING OF 35UX80B/CZ58 FINAL ASSEMBLY

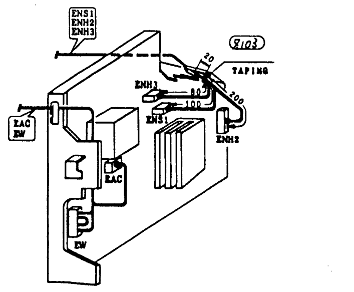

MAKE A LOOP Ø40
ANODE CAP
SILICONE COMPOUND
PURSE LOCK Ø10
WIRE CLAMP
DEGAUSSING COIL
CPT P.W.B
EY2
EY1
P31
SCREEN
FOCUS
EVM2
EVM1
EF
SK BINDER
PURSE LOCK Ø16
ESR
SPEAKER
ESL
TAPING
EARTH WIRE
EG
ANODE
CONTROL A P.W.B
CONTROL B P.W.B
LIVE PART
EF1
EF2
EFV1
EPI1
EPI2
EPI3
ESU1
ESU2
ESU3
ESU4
JSC
E40
EANT
TUNER
PinP P.W.B
MAIN P.W.B
EVM2
EDF2
EDF
ENH2
ENH3
ENS1
EAC
EW
FBT
E401
POWER BLOCK
SURROUND BLOCK
POWER CORD
ANTENNA TERMINAL BOARD
"A" VIEW
"B" VIEW

WIRING DRAWING OF 35UX70B/CZ57, 35UX70BA/CZ57P FINAL ASSEMBLY


MAKE A LOOP φ40
ANODE CAP
Z101
SILICONE COMPOUND
N108
PURSE LOCK
N112
WIRE CLAMP
DEGAUSSING COIL
P31
"A" VIEW
EY1
CPT P.W.B.
EVM2
EVM1
N110
BINDER
N111
N109
N101 ~ N107
PURSE LOCK
SCREEN
FOCUS
EPOC
N102
N105
N104
N106
N107
N103
Z103
TAPING
EARTH WIRE
ESR
SPEAKER
ESL
Z103
TAPING
(10)
MAKE A LOOP φ40
ANODE
EDF EVM2
EY2 EDF2
ENH3
EDF2
EDF
EAC
E401 ESU1
ESU2 ESU3
EP12
EP2
EFV
EP11
EAC
LIVE PART
CONTROL B
P. W. B.
CONTROL A
P. W. B.
N101
PURSE LOCK
E401
ESU3
ESU2
ESU1
SURROUND BLOCK
EP12
EP11
EP12
PinP P. W. B.
TUNER
MAIN P. W. B.
E401
ESL
ESU1
ENS1
EY1
Z103
TAPING
EPOC
EY2
ENH2
ENH3
POWER BLOCK
Z103
TAPING
EVM2
EDF2
ANODE
EAC
EW
FBT
FOCUS
SCREEN
ANTENNA TERMINAL BOARD
POWER CORD
POWER CORD
"B" VIEW

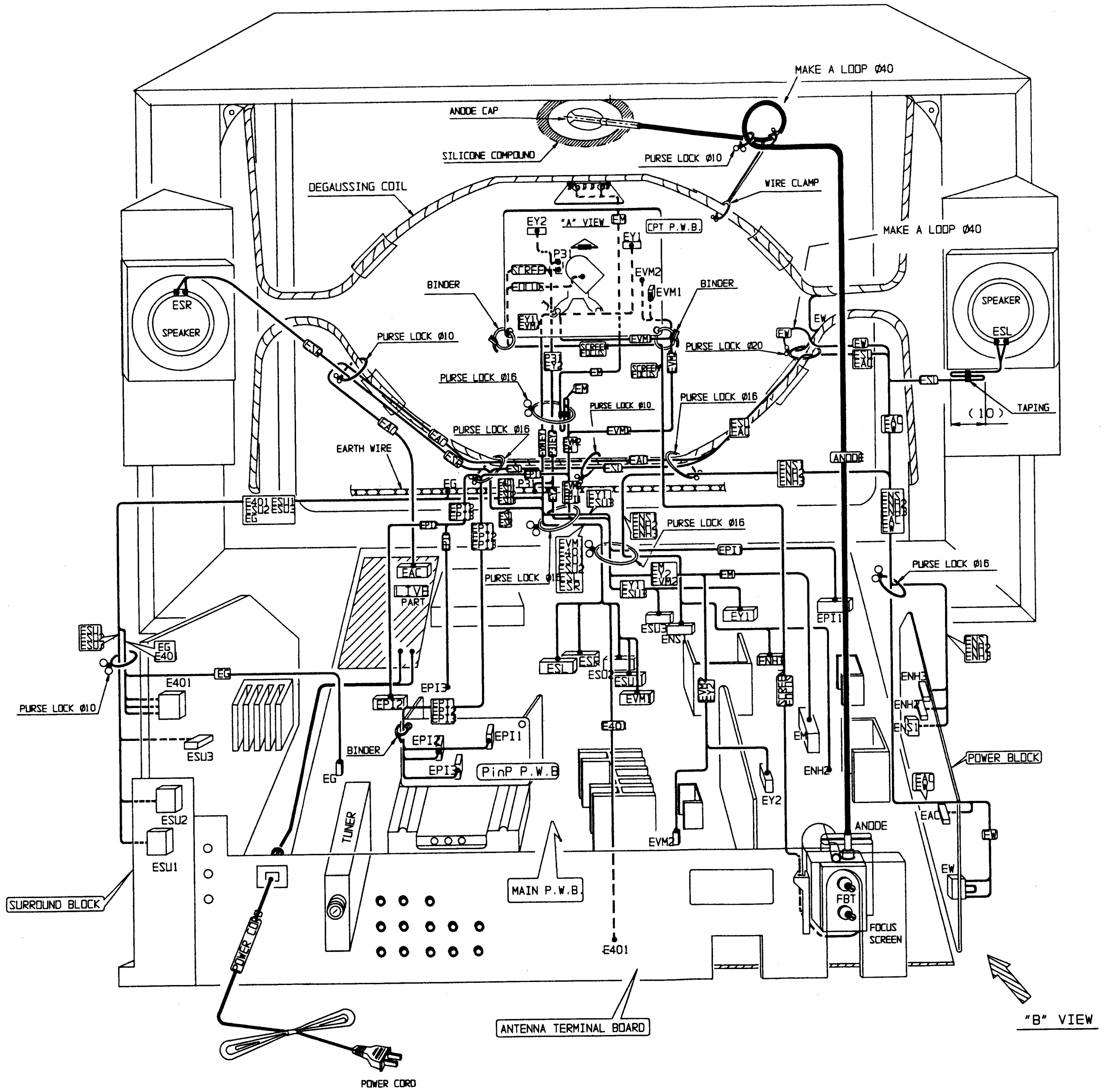

P31
CPT P.W.B.
EY1
CP MAGNET WITH VM COIL
SCREEN
FOCUS
EVM2
EVM1
EZ
N110
SK
BINDER
N111
SK
BINDER
SCREEN
FOCUS
P31
EPOC

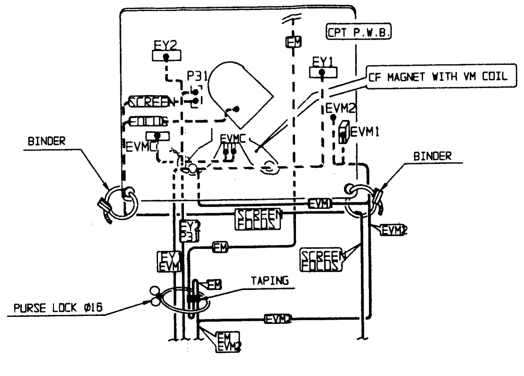
"A" VIEW


ENS1
ENH2
ENH3
Z103
TAPING
ENH3
ENS1
ENH2
EAC
EW
EAC
EW
(10)

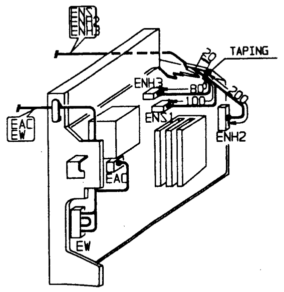
"B" VIEW

WIRING DRAWING OF 32UX8B/CY58 FINAL ASSEMBLY


MAKE A LOOP Ø40
ANODE CAP
SILICONE COMPOUND
PURSE LOCK Ø10
WIRE CLAMP
DEGAUSSING COIL
"A" VIEW
CPT P.W.B.
EY2
EY1
P31
SCREEN
EVM2
EVM1
BINDER
MAKE A LOOP Ø40
ESR
SPEAKER
ESL
PURSE LOCK Ø10
PURSE LOCK Ø16
PURSE LOCK Ø20
PURSE LOCK Ø16
PURSE LOCK Ø10
PURSE LOCK Ø16
TAPING
(10)
EARTH WIRE
ANODE
EG
E401 ESU1
ESU2 ESU3
PURSE LOCK Ø16
PURSE LOCK Ø16
PURSE LOCK Ø16
EAC
LTVP PART
EPI1
EY1
ESU3
ENS1
ESL
ESD2
EVM1
EH
EPI1
E401
ENH3
ENH2
ENS1
EW
POWER BLOCK
EAC
EG
E40
PURSE LOCK Ø10
E401
ESU3
EPI3
EPI2
EPI1
EPI3
BINDER
PinP P.W.B.
TUNER
EY2
ENH2
EVM2
ANODE
FBT
FOCUS
SCREEN
ESU2
ESU1
SURROUND BLOCK
MAIN P.W.B.
E401
EW
POWER CORD
POWER CORD
ANTENNA TERMINAL BOARD
"B" VIEW

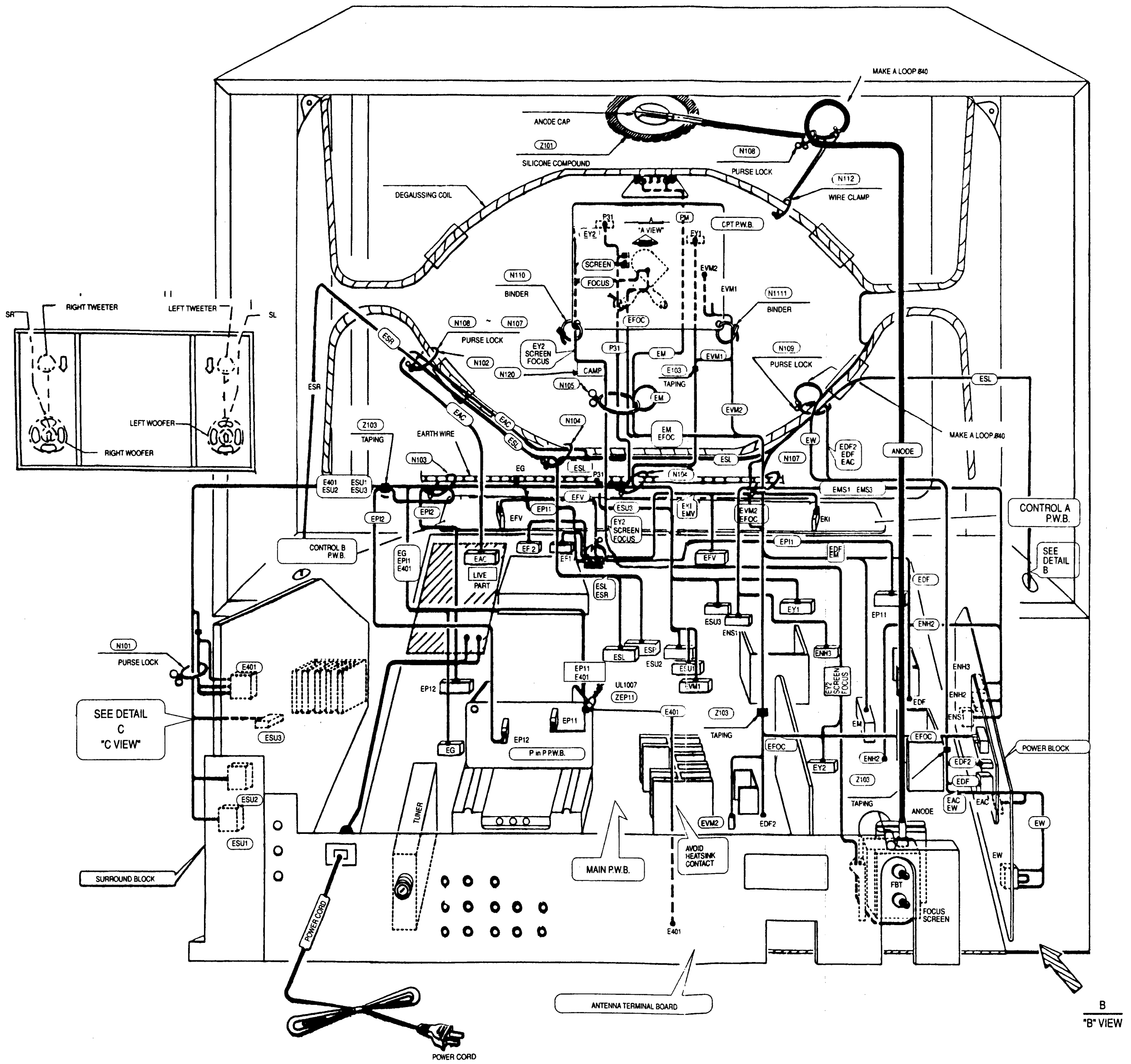

CPT P.W.B.
EY2
EY1
P31
CF MAGNET WITH VM COIL
SCREEN
EVM2
EVM1
EVMC
BINDER
BINDER
SCREEN FOCUS
EVM2
SCREEN FOCUS
TAPING
PURSE LOCK Ø16
EVM2

"A" VIEW

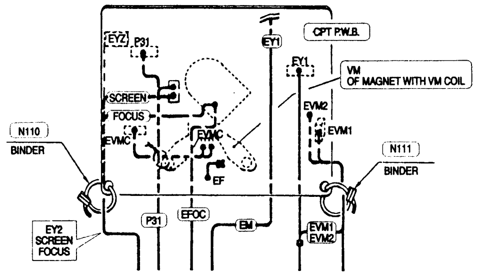

ENS1
ENH3
TAPING
ENH3
100
ENS1
ENH2
EAC
EW
EAC
EW

"B" VIEW

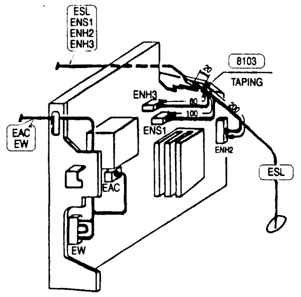
WIRING DRAWING OF 35TX79K/CZ56 FINAL ASSEMBLY


MAKE A LOOP ϕ40
ANODE CAP
Z101
SILICONE COMPOUND
N108
PURSE LOCK
N112
WIRE CLAMP
DEGAUSSING COIL
CPT P.W.B.
"A" VIEW
SCREEN
FOCUS
N110
BINDER
N111
BINDER
N106
N107
PURSE LOCK
N102
N120
EY2
SCREEN
FOCUS
CAMP
EFOC
EM
E103
TAPING
EVM1
EVM2
N109
PURSE LOCK
ESL
MAKE A LOOP ϕ40
RIGHT TWEETER
LEFT TWEETER
SR
SL
LEFT WOOFER
RIGHT WOOFER
ESR
Z103
TAPING
EARTH WIRE
N103
N104
EG
EDF2
EDF
EAC
ANODE
CONTROL A
P.W.B.
SEE
DETAIL
B
CONTROL B
P.W.B.
E401
ESU2
ESU3
EP12
EP11
EFV
EAC
LIVE
PART
ESU3
ENS1
EY1
EFV
EMS1
EMS3
EDF
ENH2
ENH3
ENS1
N101
PURSE LOCK
SEE DETAIL
C
"C VIEW"
ESU3
EP12
EG
P in P P.W.B.
EP11
E401
UL1007
ZEP11
Z103
TAPING
EFOC
EY2
Z102
TAPING
ANODE
EAC
EW
POWER BLOCK
ESU2
ESU1
SURROUND BLOCK
TUNER
MAIN P.W.B.
AVOID
HEATSINK
CONTACT
E401
FBT
FOCUS
SCREEN
EW
ANTENNA TERMINAL BOARD
POWER CORD
POWER CORD

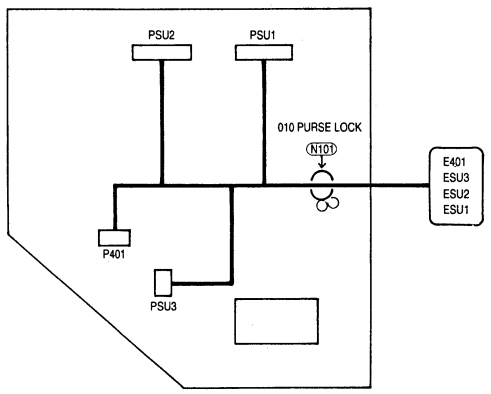
B
"B" VIEW


EY2
P31
EY1
CPT P.W.B.
VM
OF MAGNET WITH VM COIL
SCREEN
FOCUS
EVM2
EVM1
N110
BINDER
N111
BINDER
EF
EY2
SCREEN
FOCUS
P31
EFOC
EM
EVM1
EVM2

A
"A" VIEW


ESL
ENS1
ENH2
ENH3
B103
TAPING
ENH3
ENS1
ENH2
EAC
EW
EAC
ESL
EW

B
"B" VIEW

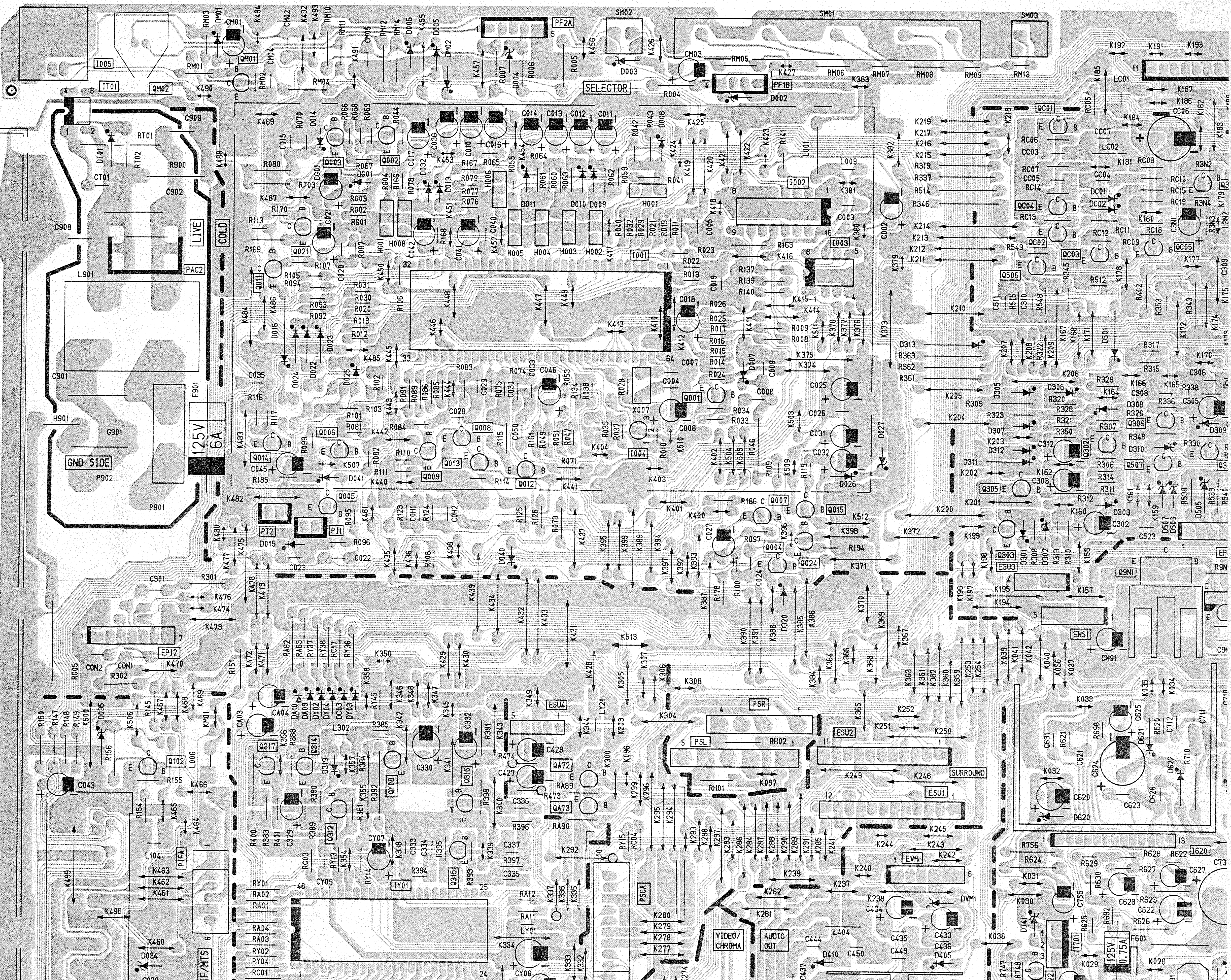

PSU2
PSU1
010 PURSE LOCK
N101
E401
ESU3
ESU2
ESU1
P401
PSU3

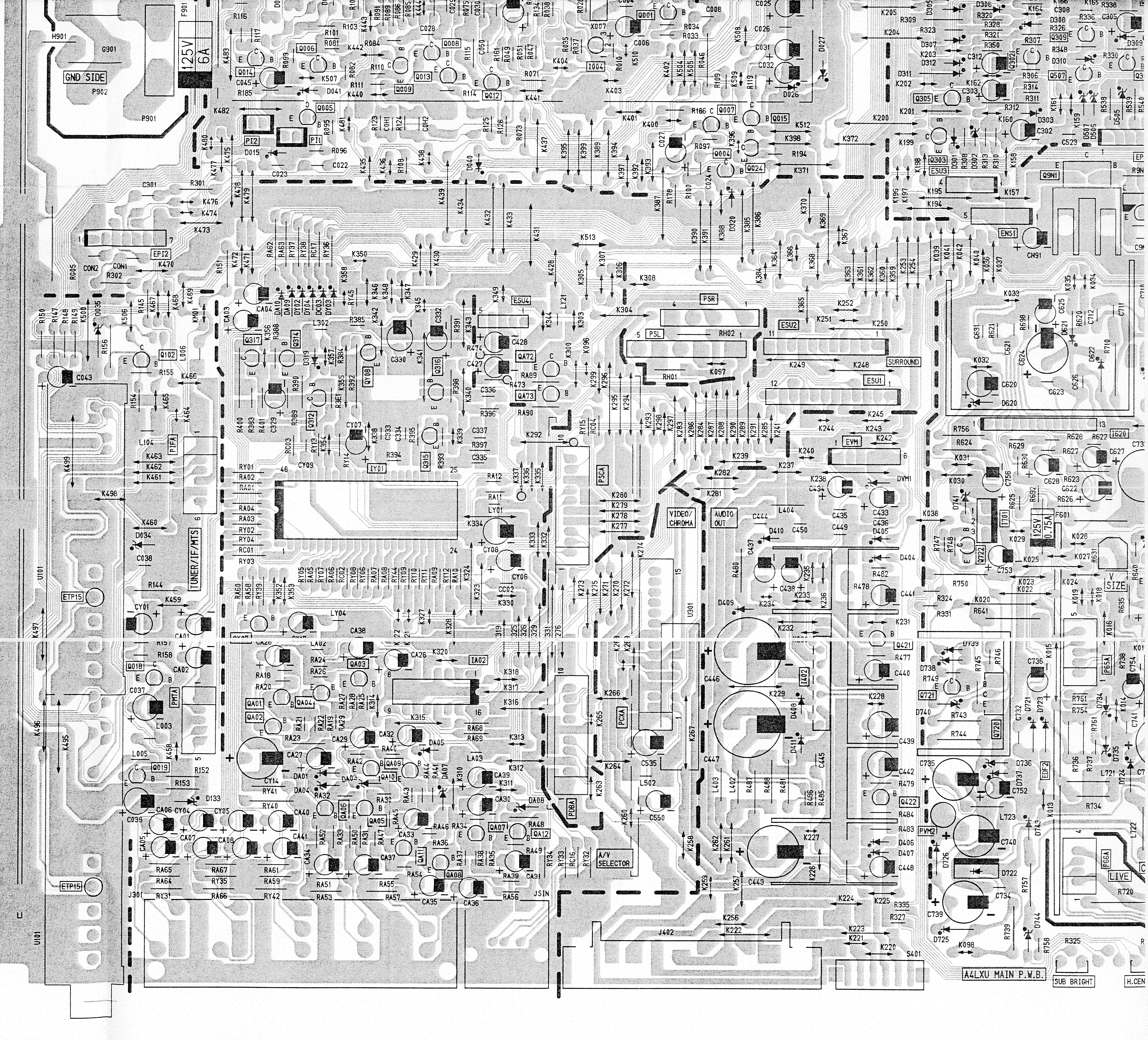
SURROUND BLOCK

"C" VIEW

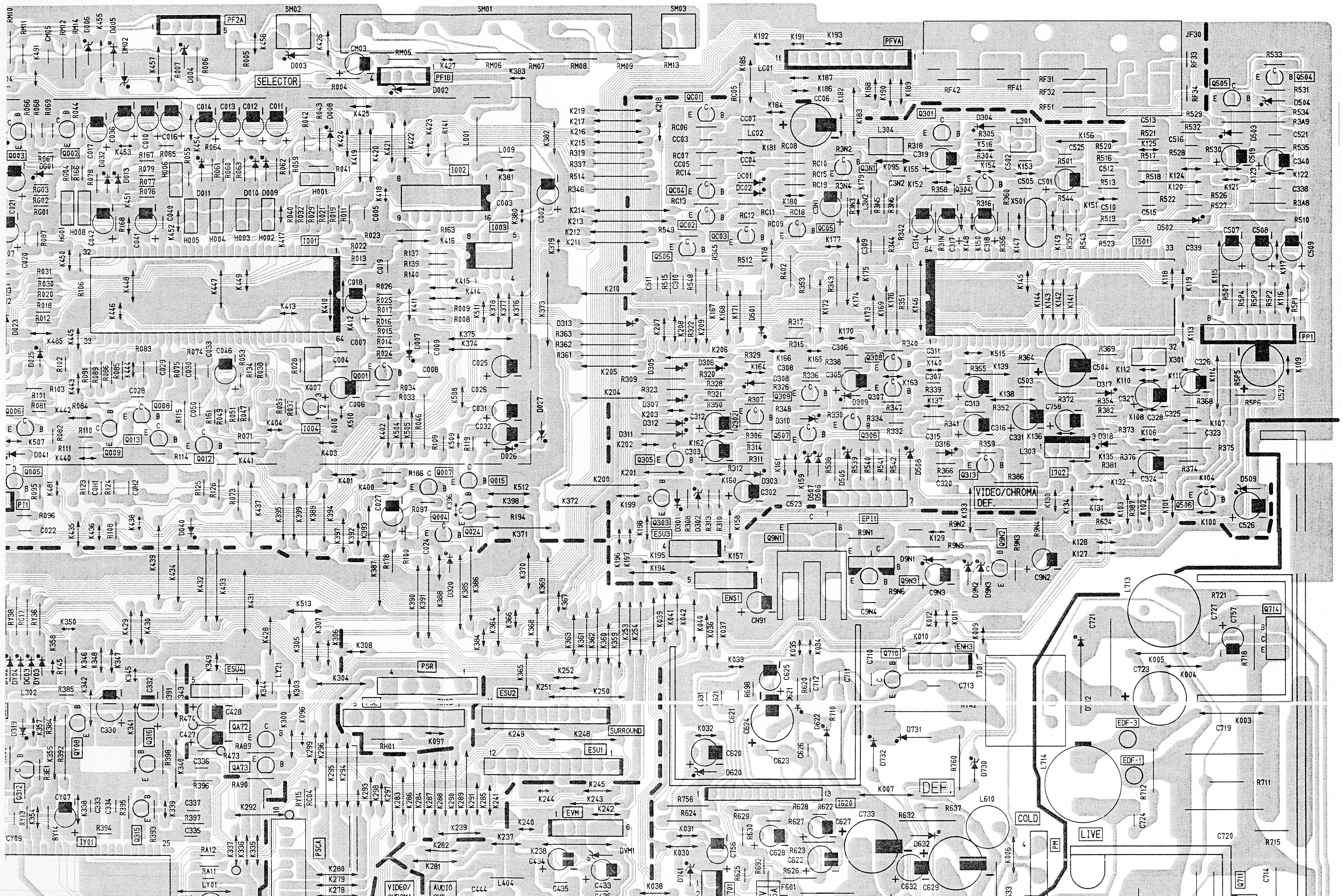
PRINTED WIRING BOARD FOIL PATTERN

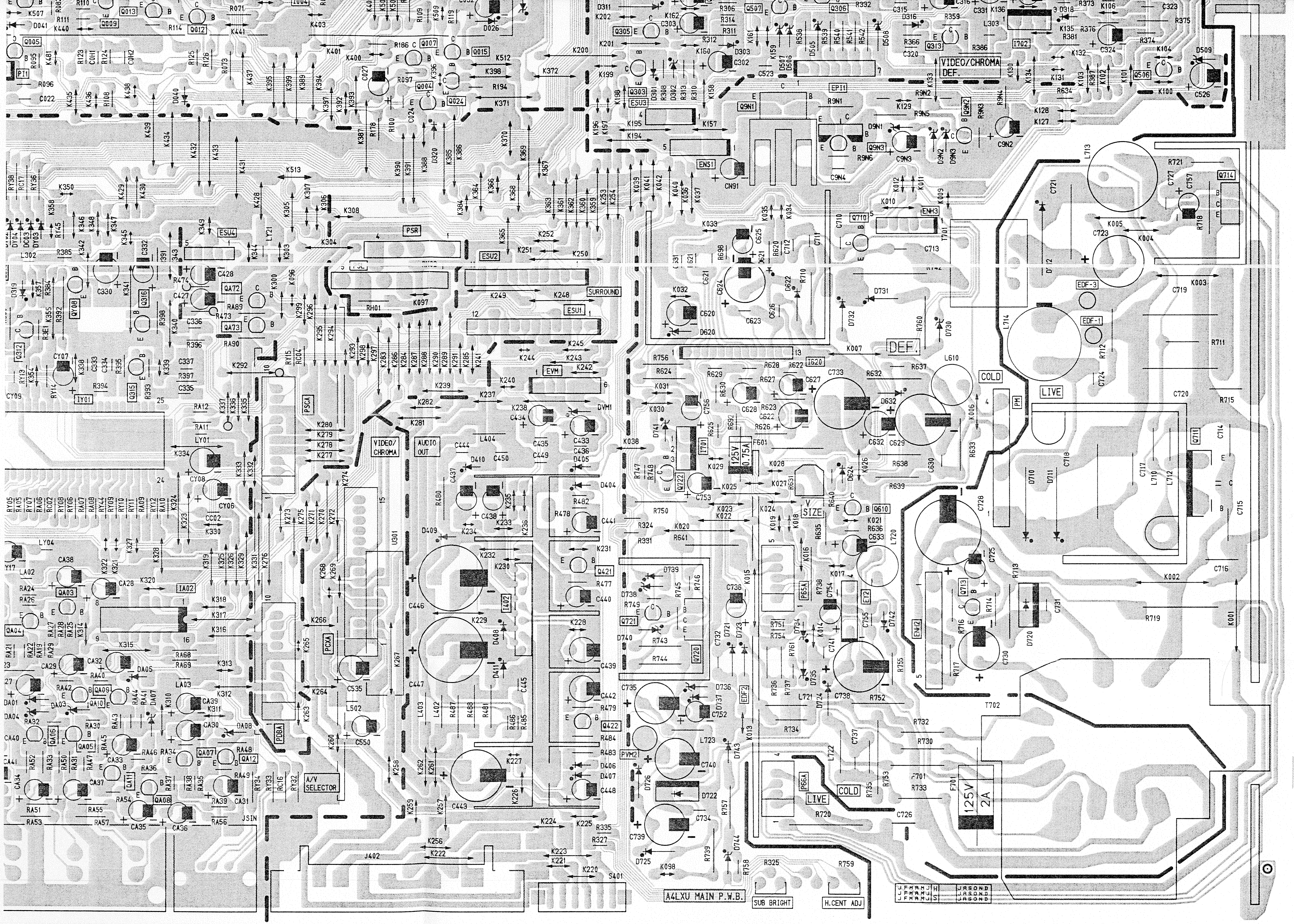
A4LXU MAIN P.W.B.


LIVE
COLD
GND SIDE
125V
6A
SELECTOR
SURROUND
VIDEO/
CHROMA
AUDIO
OUT
IF/MTS
125V
0.75A
SM01
SM02
SM03
PF2A
PF1B
I001
I002
I003
I004
I005
IT01
L901
C901
C908
G901
P901
P902
H901
F901
T901
PAC2
EPI2
ESU1
ESU2
ESU3
ESU4
PSR
PSL
PSCA
EVM
DVM1
EN51
IY01
LY01
I620


GND SIDE
125V 6A
F901
H901
G901
P901
P902
TUNER/IF/MTS
VIDEO/ CHROMA
AUDIO OUT
A/V SELECTOR
SURROUND
PSR
PSL
ESU1
ESU2
ESU3
ESU4
EVM
DVM1
PVM2
125V 0.75A
F601
SIZE
LIVE
SUB BRIGHT
H.CEN
ETP15
U101
J301
JSIN
J402
S401
U301
A4LXU MAIN P.W.B.

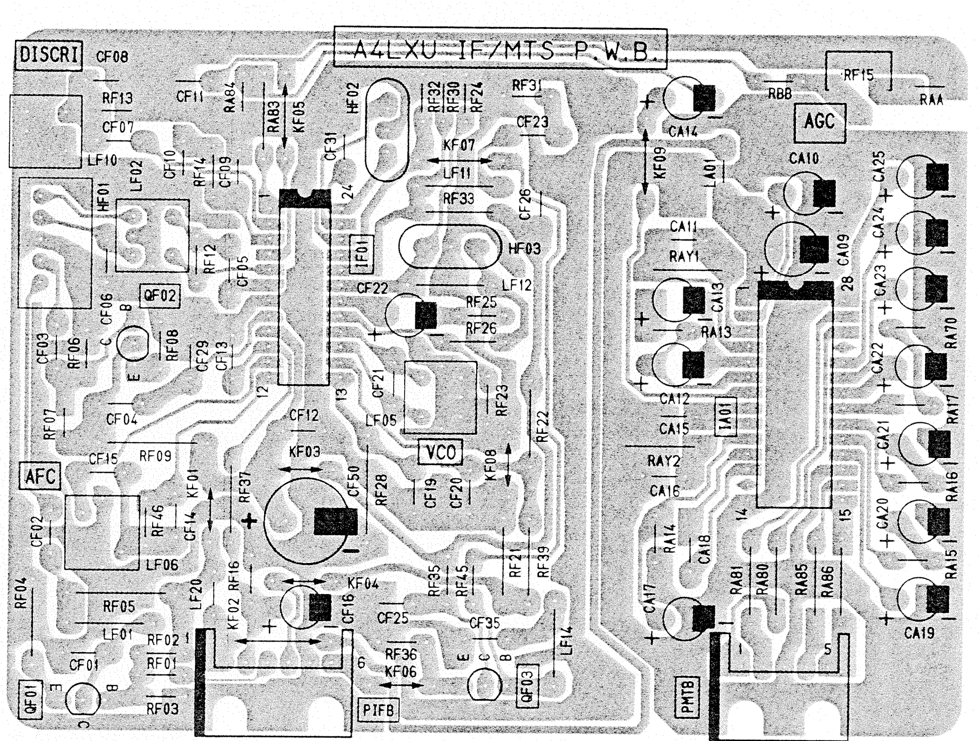
PRINTED WIRING BOARD FOIL PATTERN


SM02
SM01
SM03
PF2A
SELECTOR
PF1B
PFVA
JF30
I001
I002
I003
I004
I501
I702
I620
PP1
P11
EPII
ESU1
ESU2
ESU3
ESU4
ENS1
ENH3
EVM
PSR
PSCA
SURROUND
VIDEO/CHROMA
DEF.
DEF.
COLD
LIVE
PM
EDF-3
EDF-1
L713
L714
L610
C526
C527
C504
CN91
C9N3
C9N2
C9N4
Q9N1
Q9N2
Q9N3
Q714
Q710
Q711
Q504
Q505
Q506
Q501
Q304
Q301
Q313
R721
R711
R715
C719
C720
K003
K004
K005
VIDEO/
AUDIO

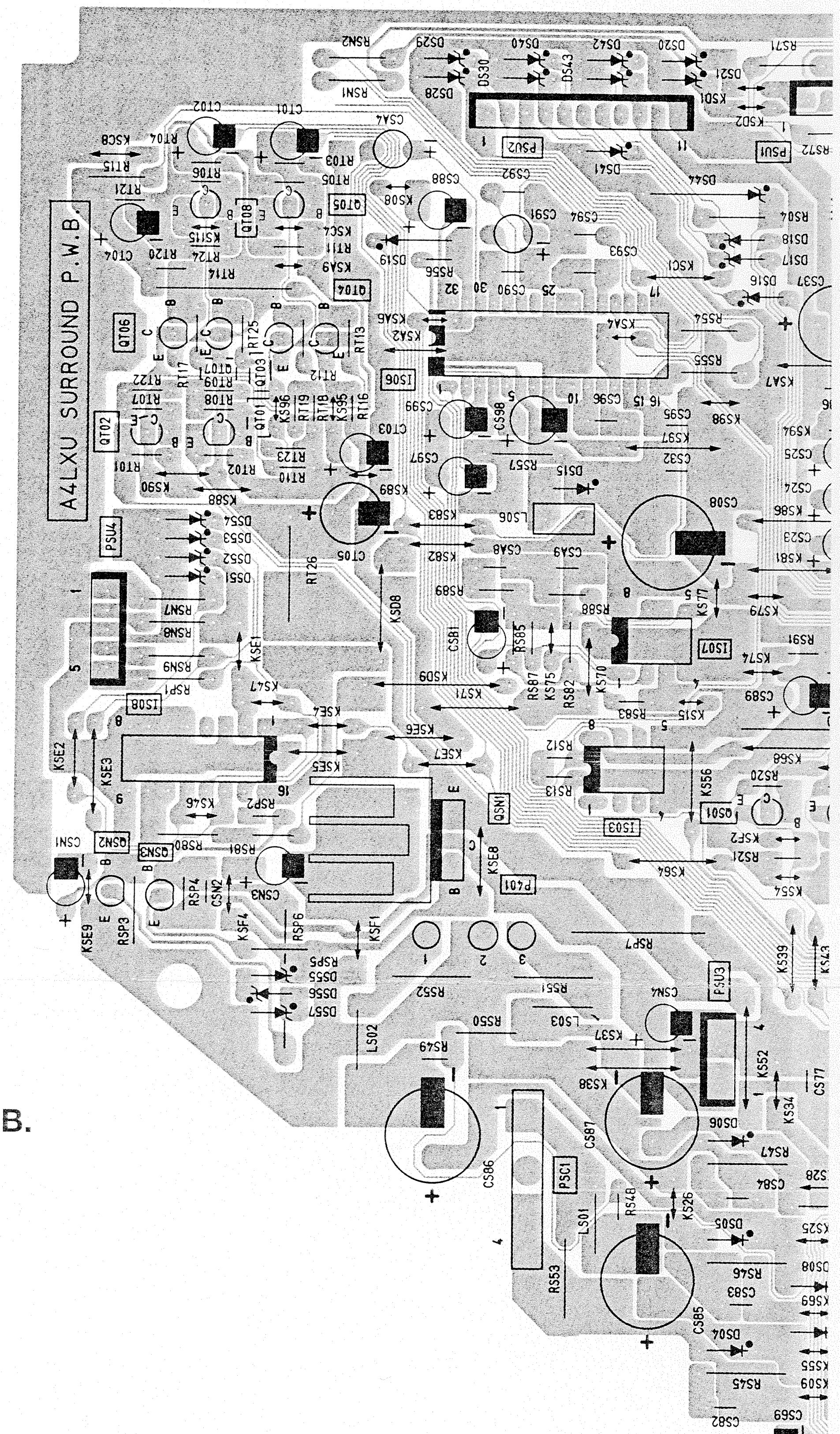

VIDEO/CHROMA
DEF.
SURROUND
DEF.
COLD
LIVE
125V
0.75A
VIDEO/
CHROMA
AUDIO
OUT
A/V
SELECTOR
V SIZE
125V
2A
COLD
LIVE
A4LXU MAIN P.W.B.
SUB BRIGHT
H.CENT ADJ
PSR
ESU2
ESU4
ESU1
EVM
PSCA
PCXA
PDBA
EDF-3
EDF-1
T702
T701
J402
S401
JSIN

PRINTED WIRING BOARD FOIL PATTERN

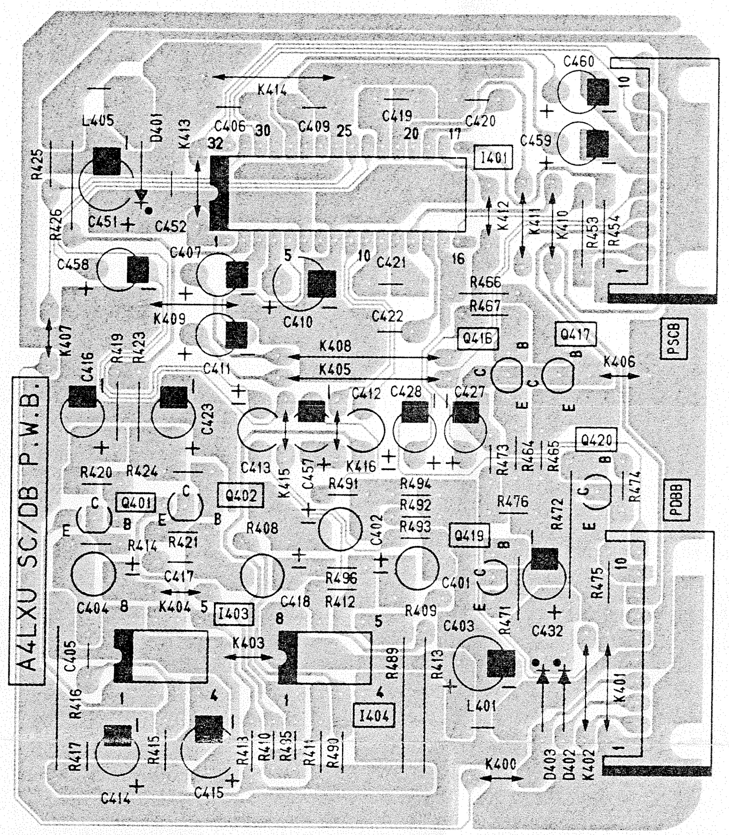
A4LXU IF/MTS P.W.B.

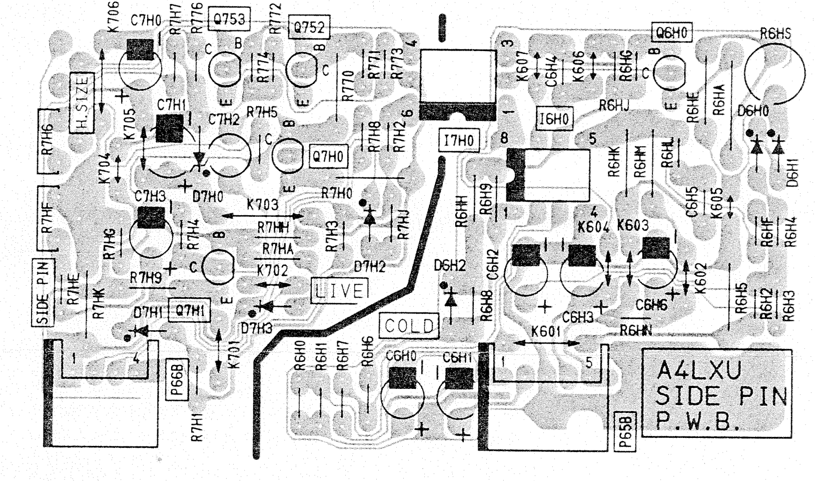

A4LXU IF/MTS P.W.B.
DISCRI
AGC
AFC
VCO
PIFB
PMTB

A4LXU SURRO

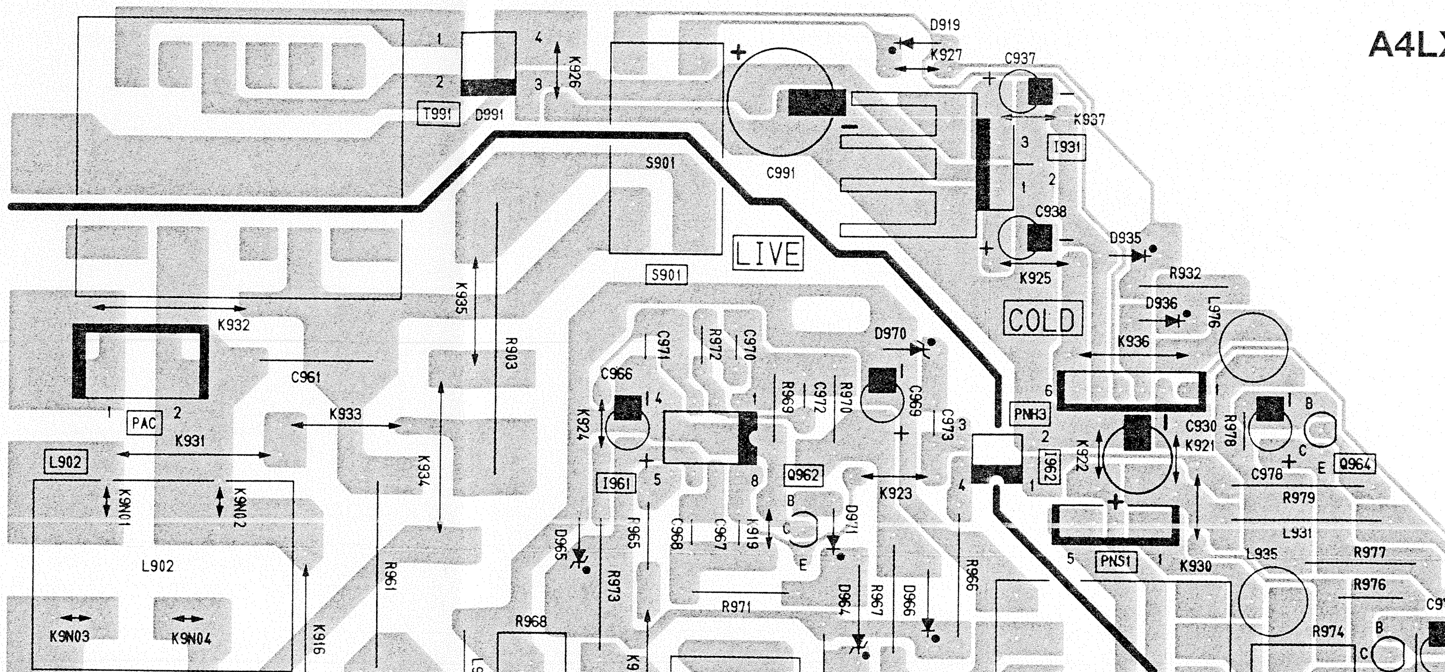

A4LXU SURROUND P.W.B.

A4LXU SC/DB P.W.B.

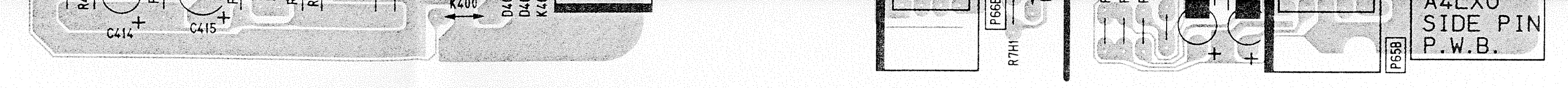

A4LXU SC/DB P.W.B.
PSCB
PDBB


A4LXU SIDE PIN P.W.B.
H.SIZE
SIDE PIN
LIVE
COLD
P66B
P65B

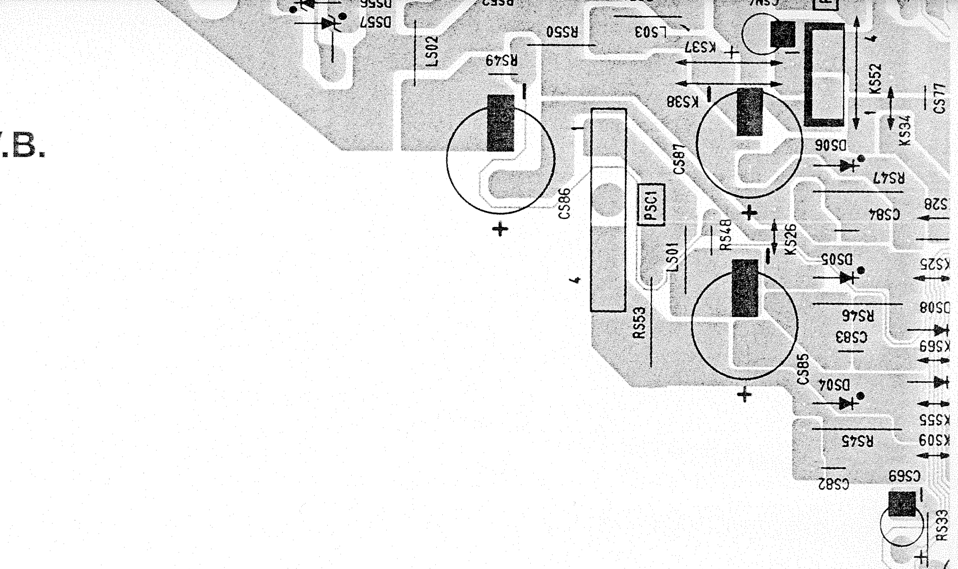
A4LXU SIDE PIN P.W.B.


LIVE
COLD
PAC
S901
T991
C991

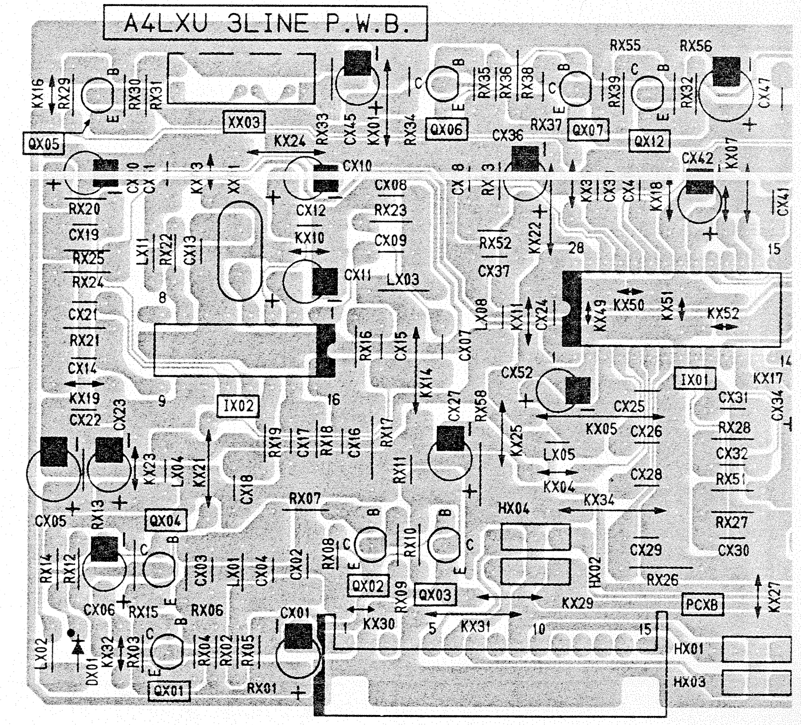
A4LXU 3LINE P.W.B.

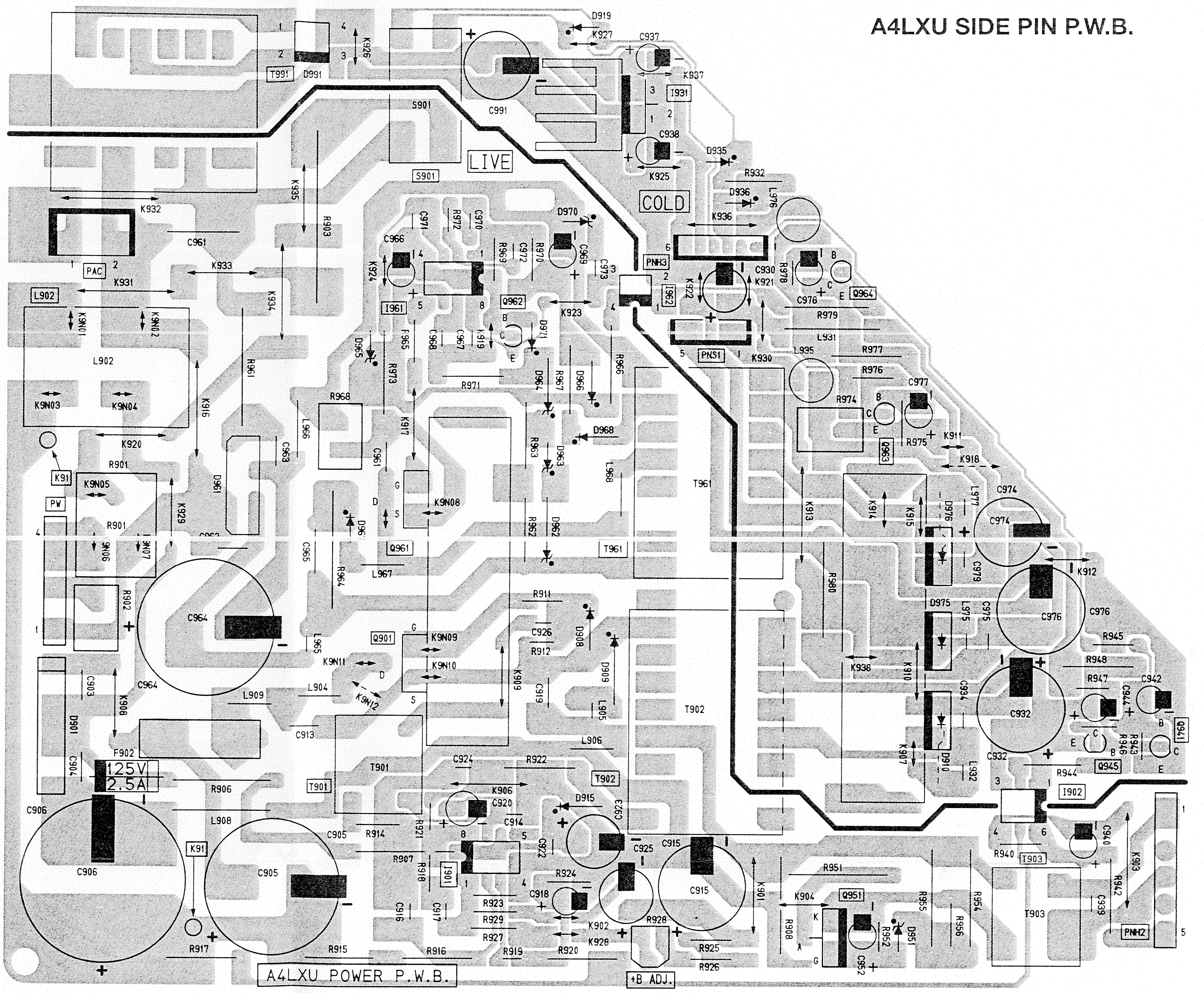

A4LXU
SIDE PIN
P.W.B.

A4LXU SIDE PIN P.W.B.



A4LXU 3LINE P.W.B.

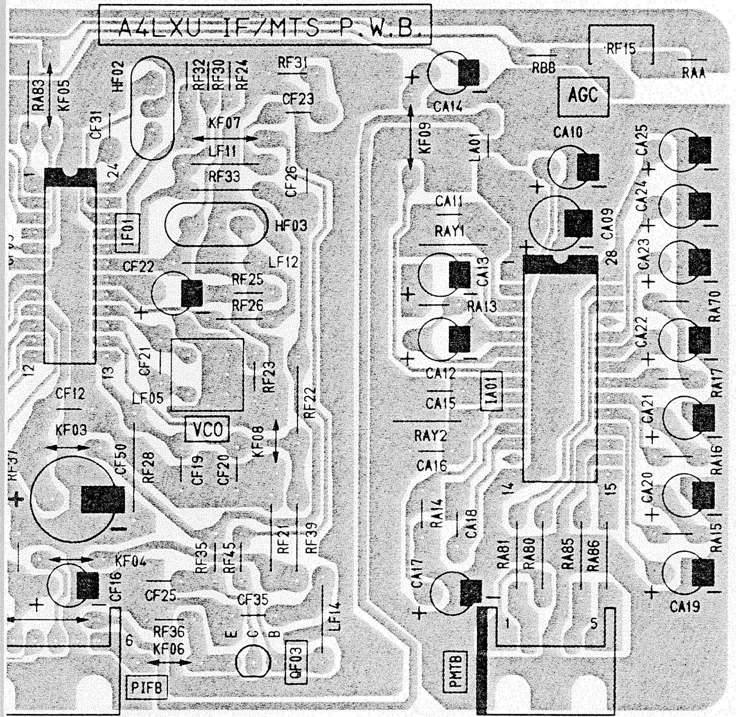

A4LXU 3LINE P.W.B.


LIVE
COLD
125V
2.5A
+B ADJ.
A4LXU POWER P.W.B.

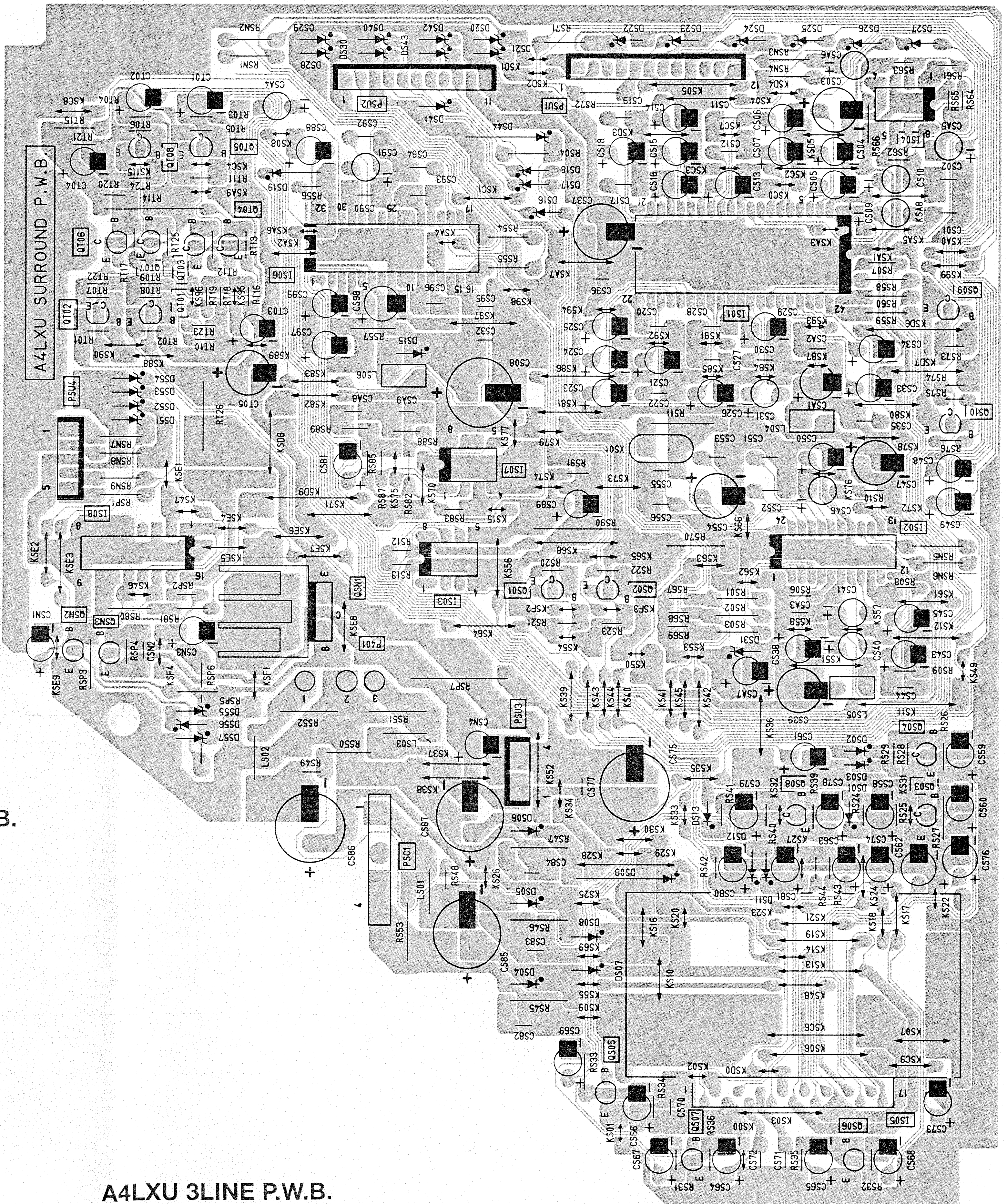
A4LXU POWER P.W.B.

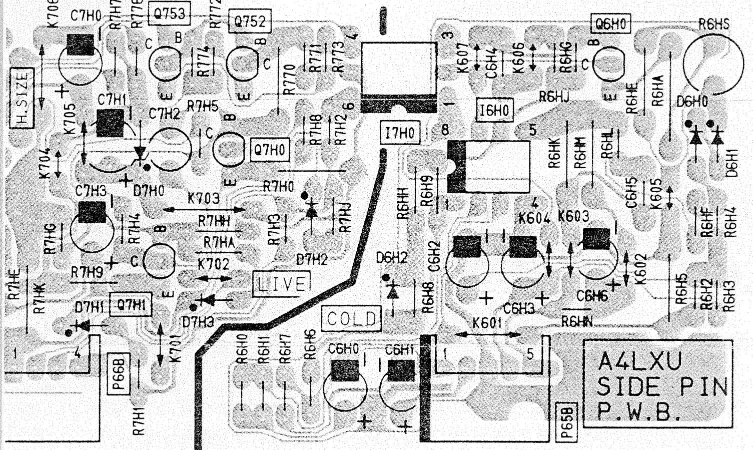
PRINTED WIRING BOARD FOIL PATTERN

A4LXU IF/MTS P.W.B.

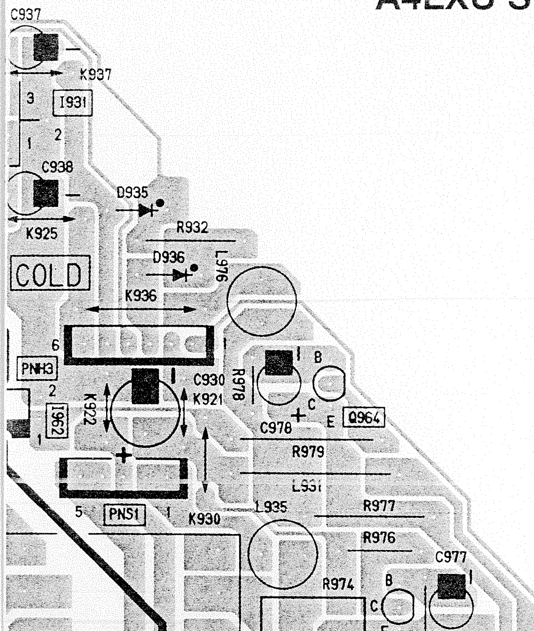

A4LXU IF/MTS P.W.B.
AGC
VCO

A4LXU SURROUND P.W.B.

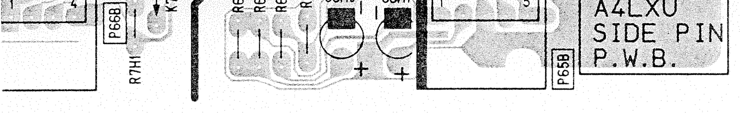

A4LXU SURROUND P.W.B.


A4LXU SIDE PIN P.W.B.
H.SIZE
LIVE
COLD

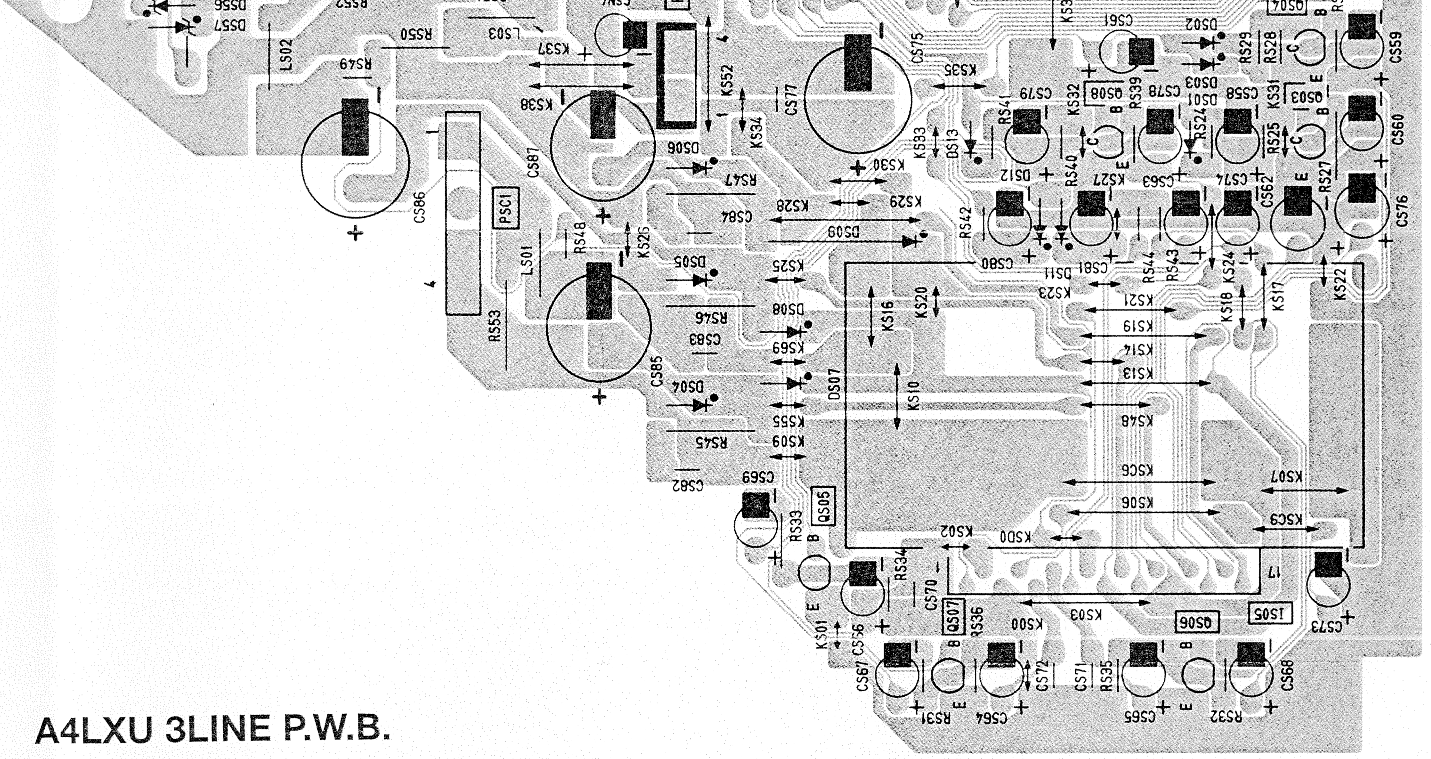
A4LXU SIDE PIN P.W.B.



A4LXU 3LINE P.W.B.


A4LXU
SIDE PIN
P.W.B.
P658
P668

A4LXU SIDE PIN P.W.B.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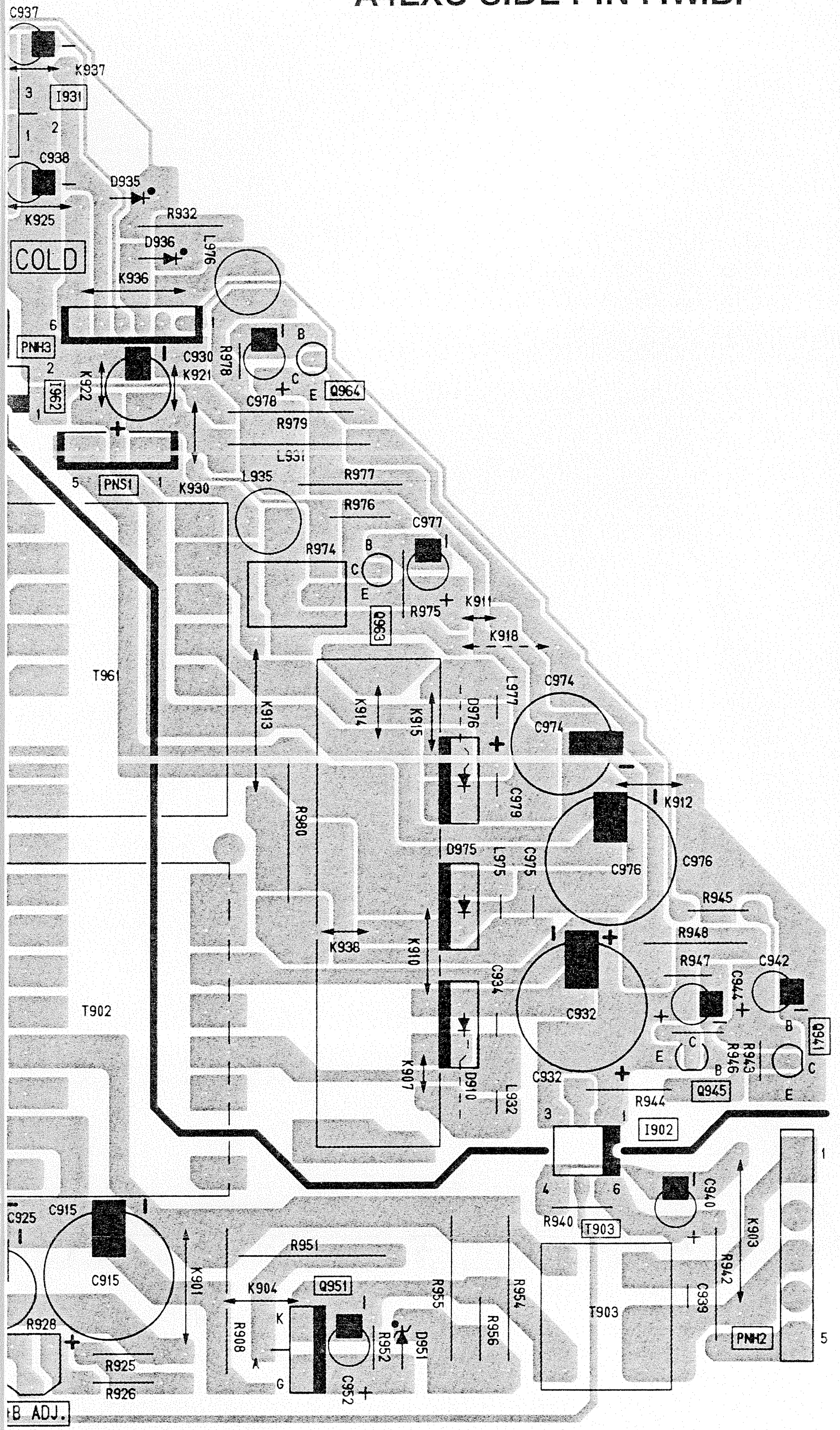
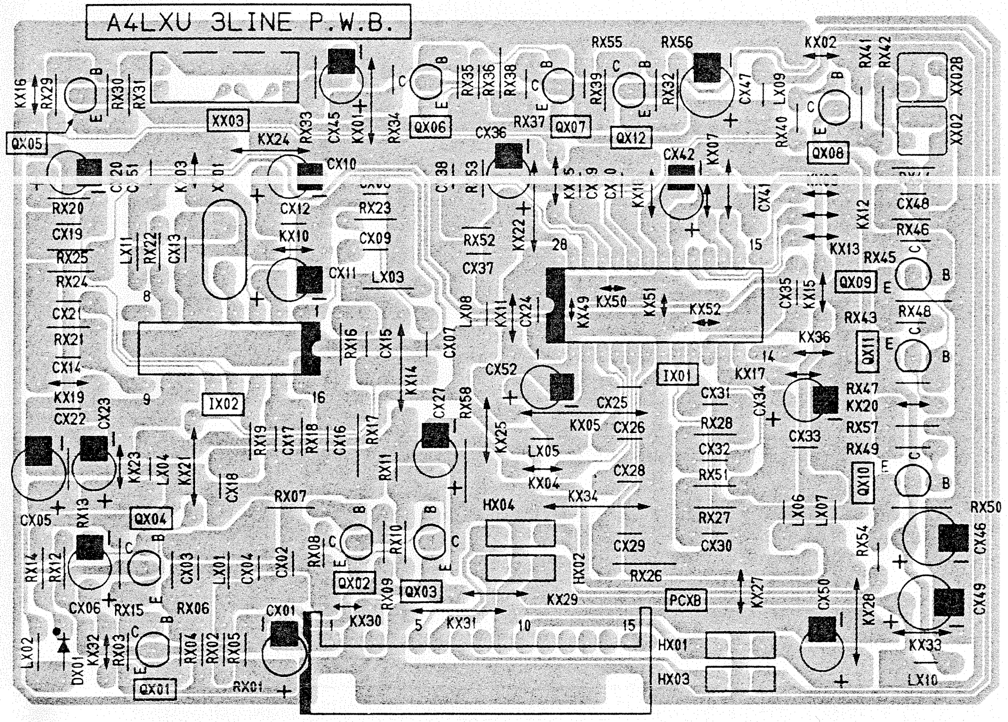
LS01
RS53
CS86
CS87
QS05
QS07
QS06
LS05

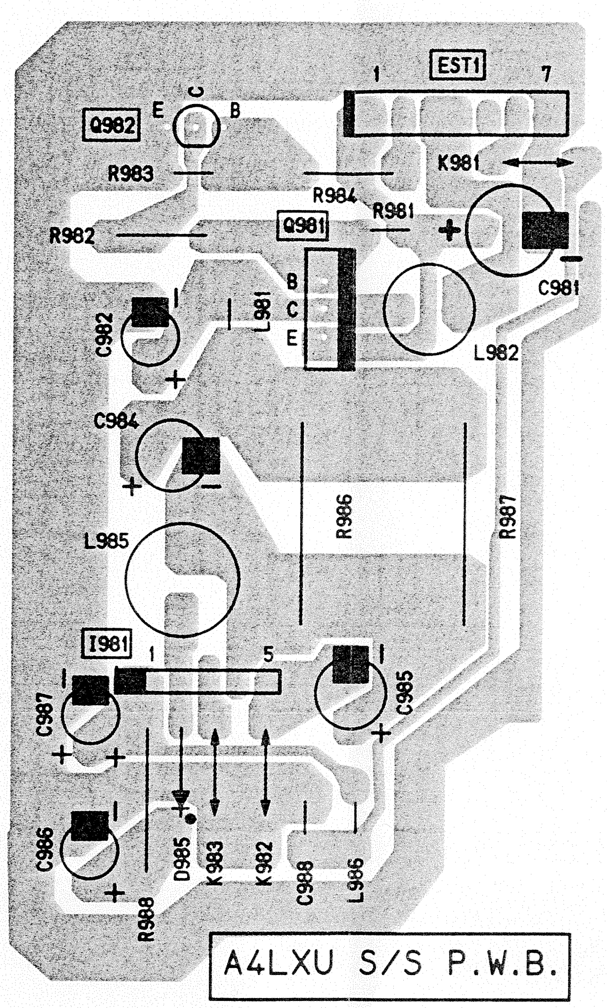

COLD
T961
T902
T903
C915
C932
C974
C976
I931
I902
I903
PNH2
PNH3
PNS1
Q945
Q951
Q964
B ADJ.

A4LXU 3LINE P.W.B.


A4LXU 3LINE P.W.B.
IX01
IX02
QX01
QX02
QX03
QX04
QX05
QX06
QX07
QX08
QX09
QX10
QX11
QX12
XX02
XX03
PCXB
HX01
HX03

PRINTED WIRING BOARD FOIL PATTERN

A4LXU S/S P.W.B.



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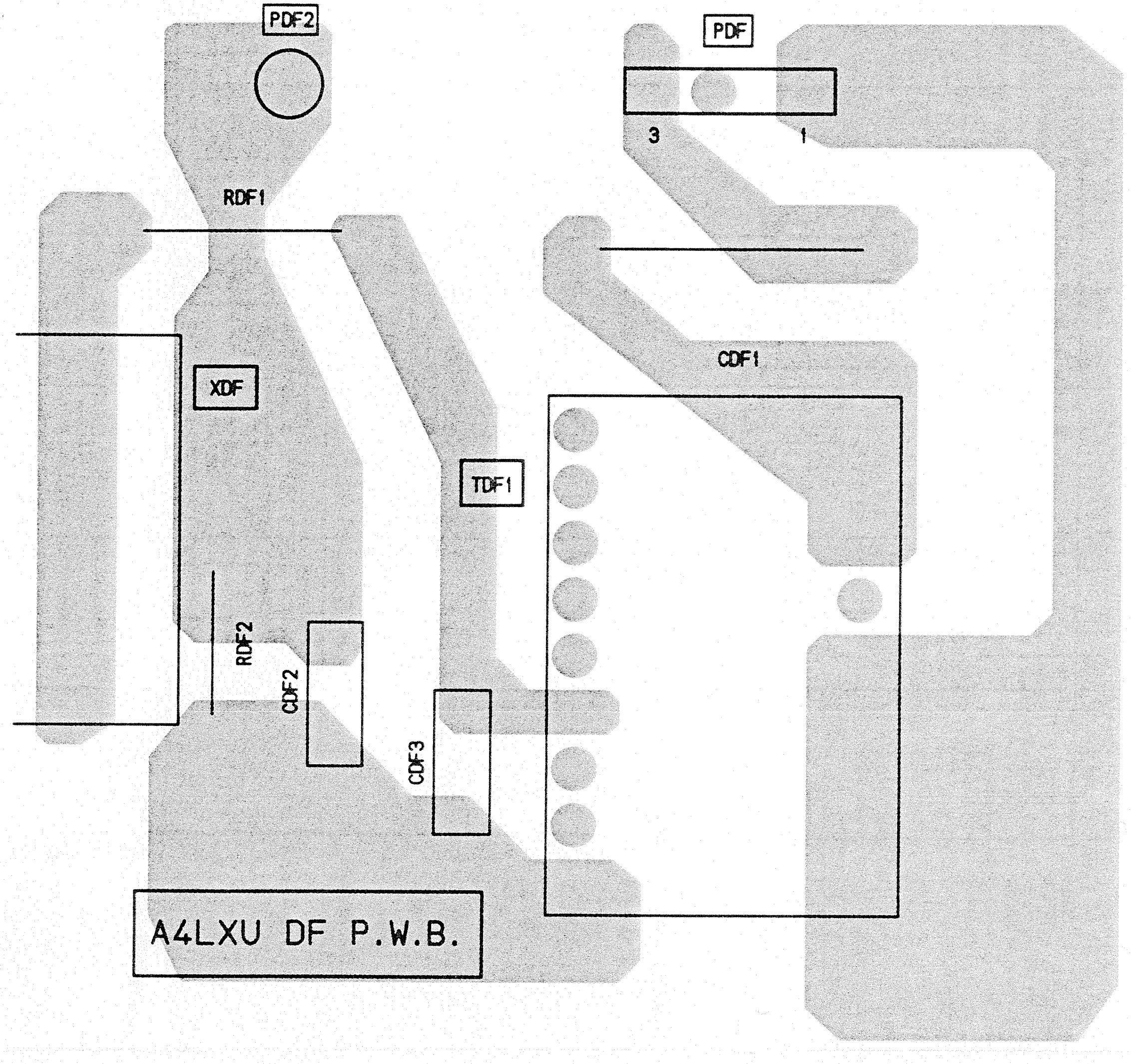
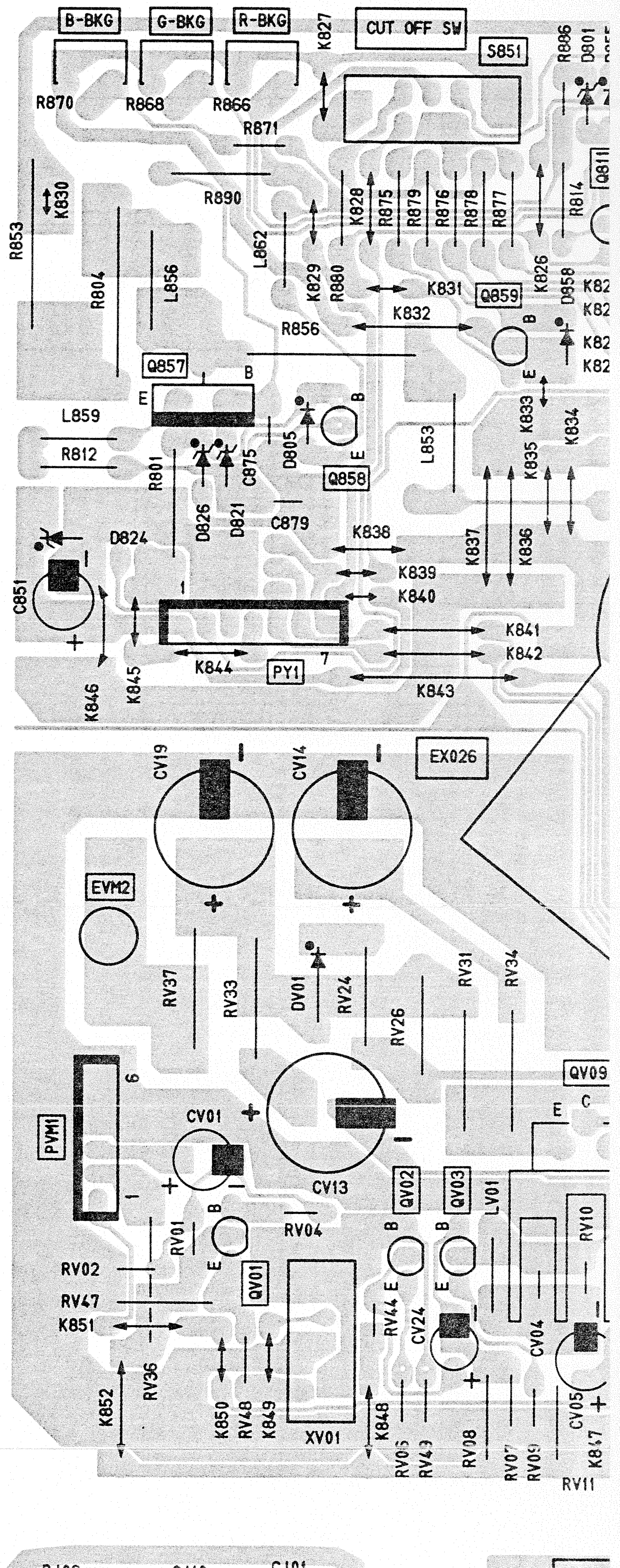
7
Q982
E
C
B
R983
K981
R984
R981
R982
Q981
C981
C982
L981
B
C
E
L982
C984
R986
R987
L985
I981
1
5
C987
C985
C986
D985
K983
K982
C988
L986
R988
A4LXU S/S P.W.B.

A4LXU DF P.W.B.



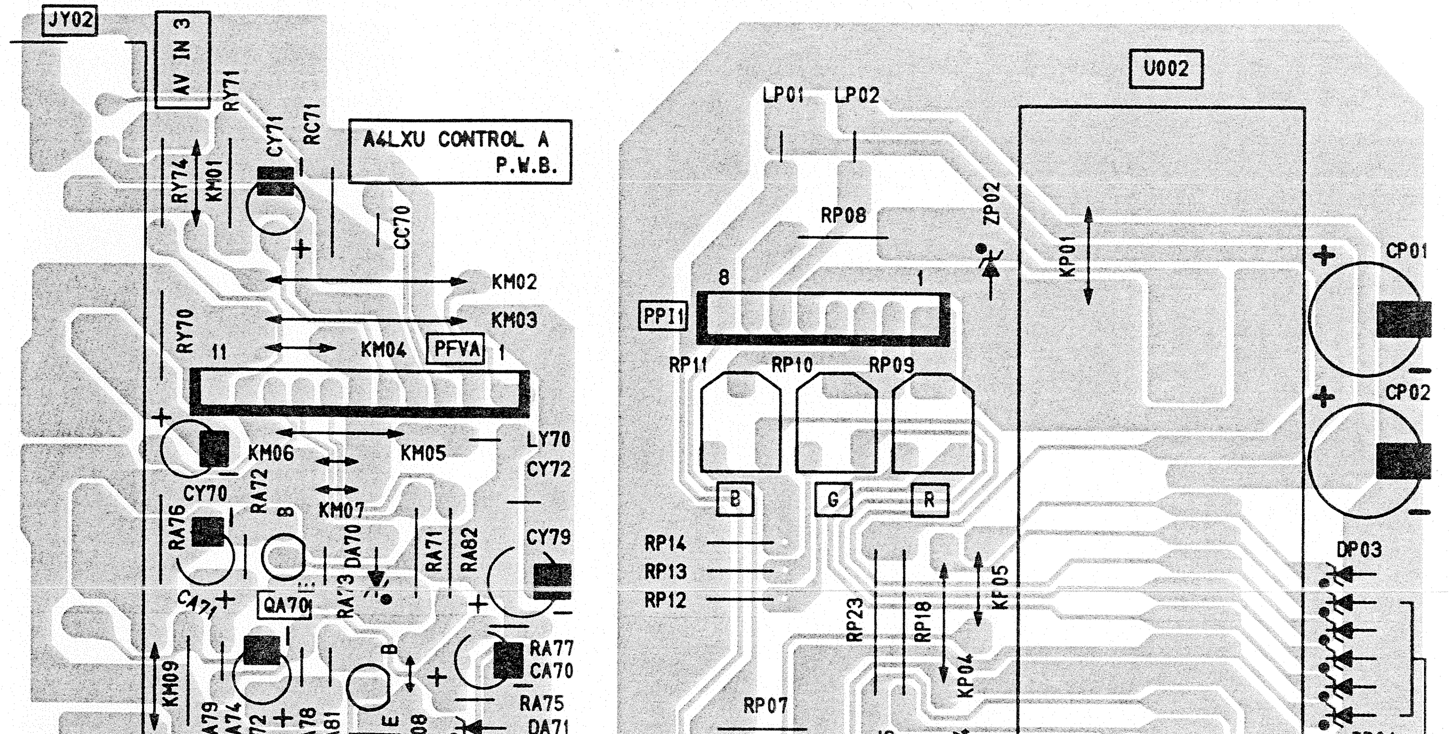
PDF2
PDF
3
1
RDF1
CDF1
XDF
TDF1
RDF2
CDF2
CDF3
A4LXU DF P.W.B.

A4LXU

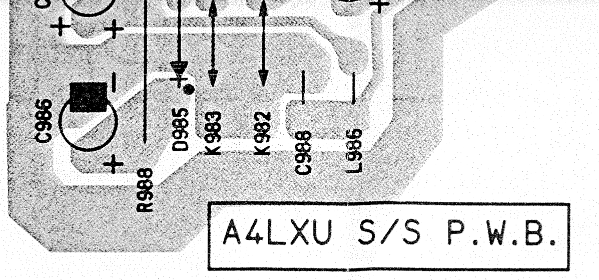


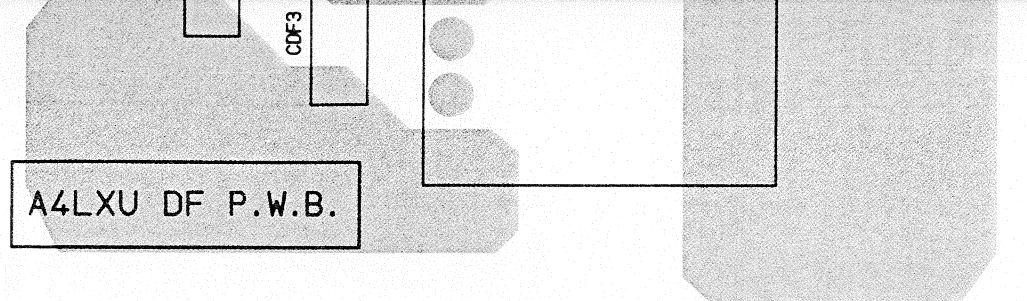
B-BKG
G-BKG
R-BKG
K827
CUT OFF SW
S851
R870
R868
R866
R871
R890
K830
R853
R804
L856
L862
K828
R875
R879
R876
R878
R877
R814
K829
R880
K831
Q859
K826
D958
R856
K832
Q857
E
B
L859
R812
R801
D826
D821
C875
D805
Q858
L853
K833
K835
K834
D824
C879
K838
K839
K840
K837
K836
C851
1
7
PY1
K844
K841
K842
K843
K846
K845
CV19
CV14
EX026
EVM2
RV37
RV33
DV01
RV24
RV26
RV31
RV34
QV09
PVM1
6
CV01
CV13
QV02
QV03
LV01
RV10
RV01
RV04
RV02
RV47
K851
QV01
RV44
CV24
CV04
K852
RV36
K850
RV48
K849
XV01
K848
RV05
RV43
RV08
RV07
RV09
CV05
K847
RV11

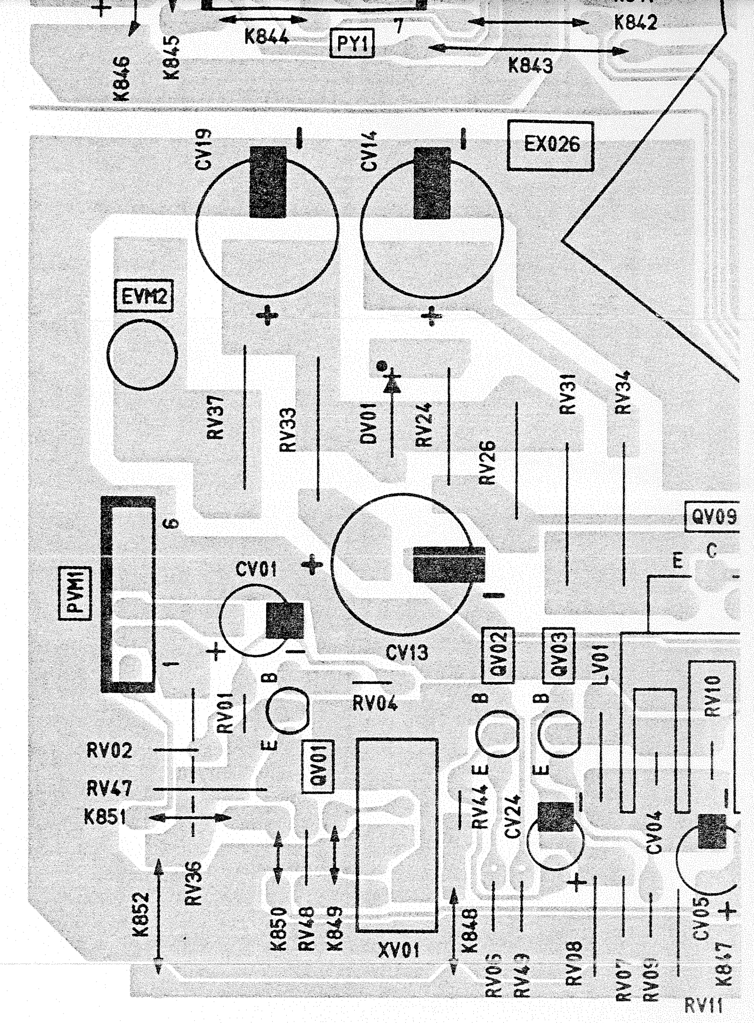
A4LXU CONTROL A P.W.B.



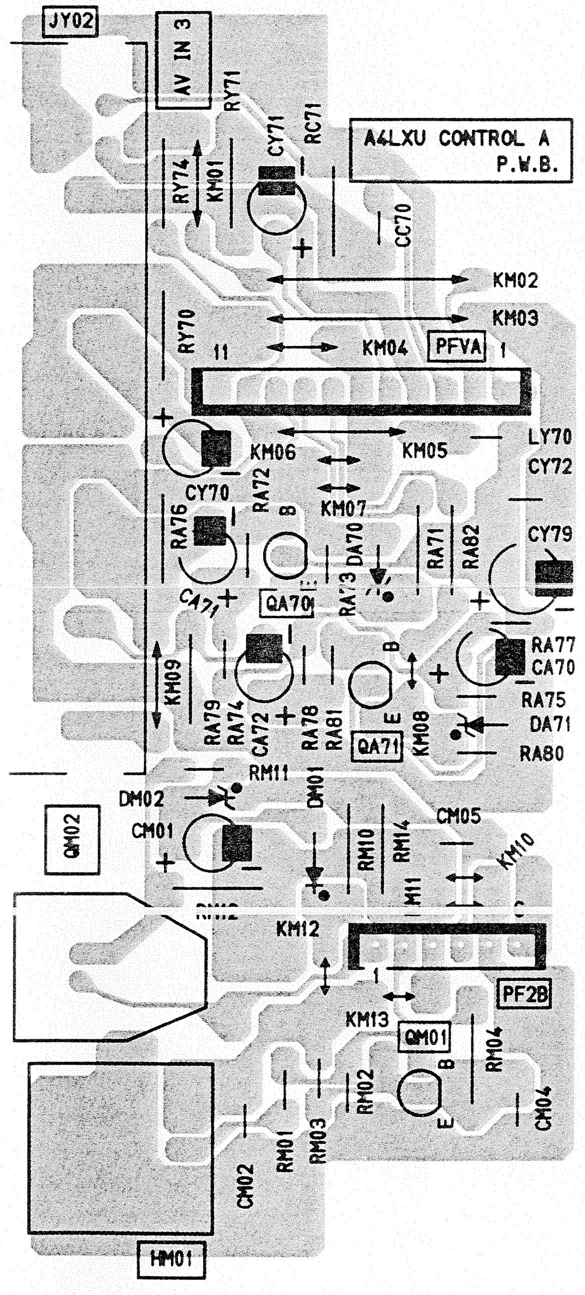
JY02
AV IN 3
RY71
CY71
RC71
A4LXU CONTROL A P.W.B.
RY74
KM01
CC70
KM02
KM03
RY70
11
KM04
PFVA
1
KM06
KM05
LY70
CY72
CY70
RA72
KM07
RA76
DA70
RA71
RA82
CY79
CA71
QA70
RA77
CA70
KM09
RA75
DA71
U002
LP01
LP02
RP08
ZP02
KP01
CP01
CP02
8
1
PPI1
RP11
RP10
RP09
B
G
R
RP14
RP13
RP12
RP23
RP18
KF05
KP04
DP03
RP07

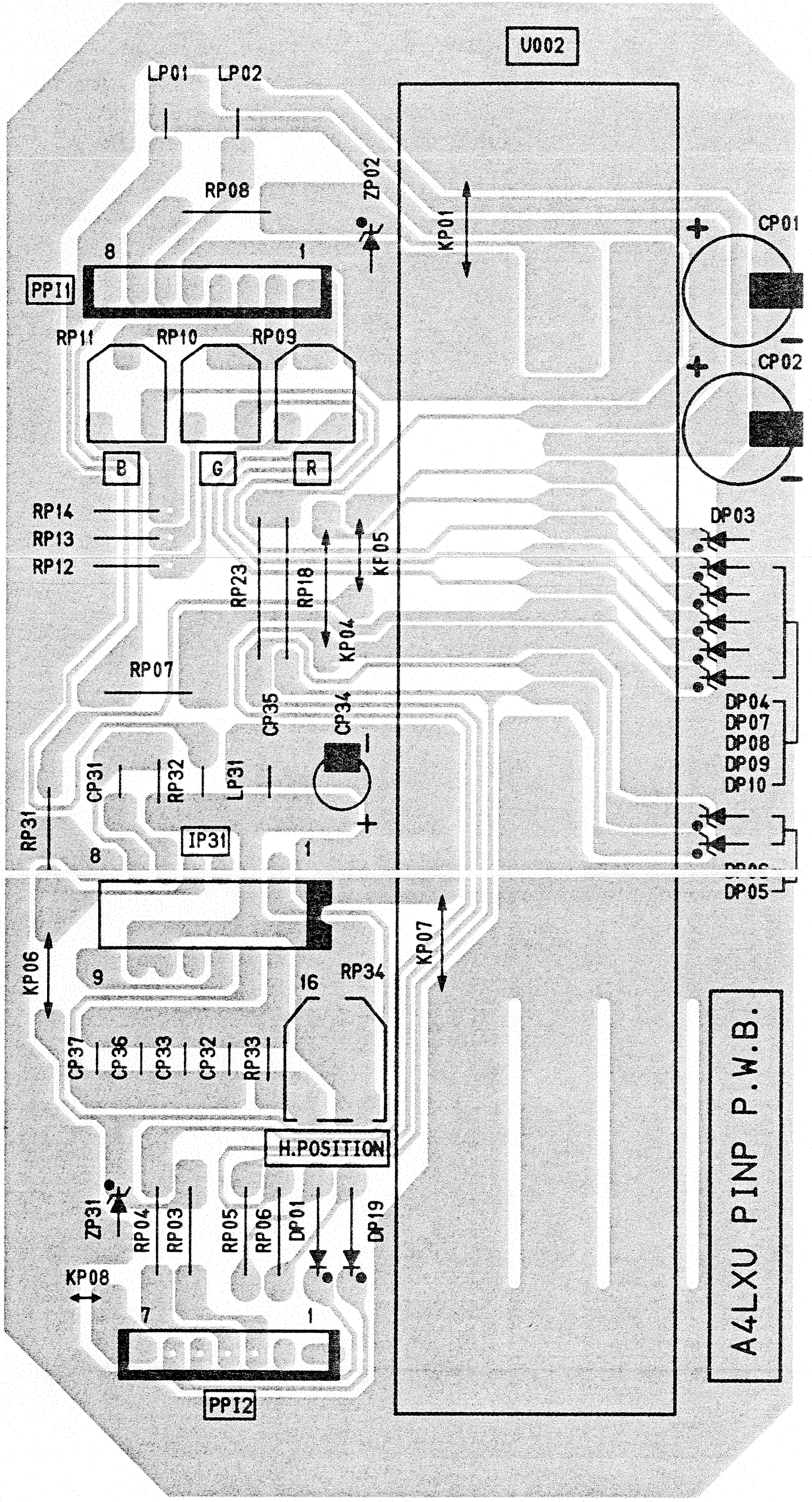

C986
D985
K983
K982
C988
L986
R988
A4LXU S/S P.W.B.


CDF3
A4LXU DF P.W.B.

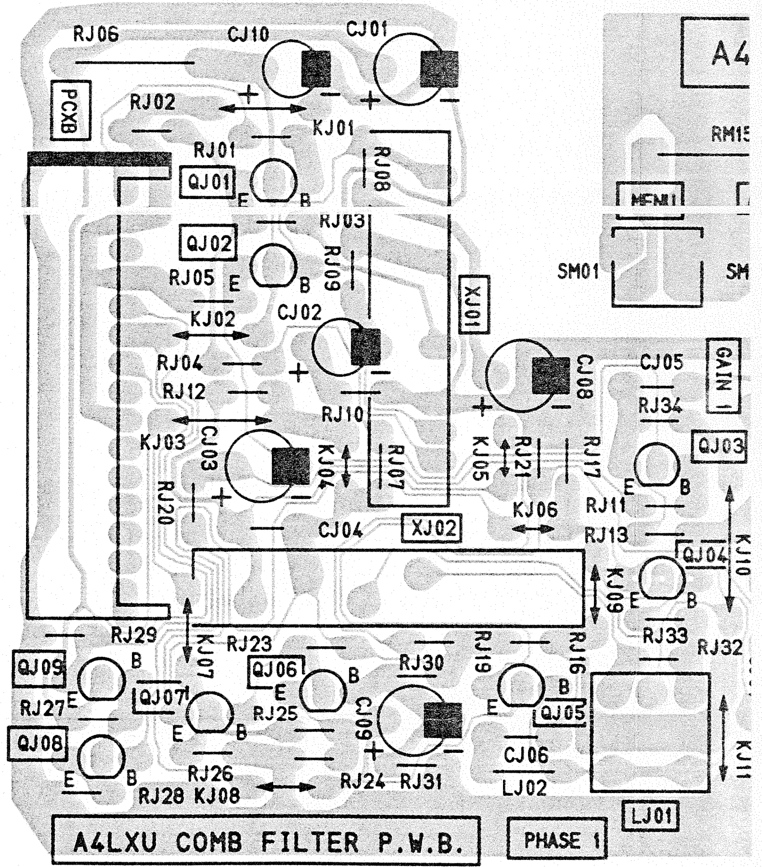

K846
K845
K844
PY1
K842
K843
CV19
CV14
EX026
EVM2
RV37
RV33
DV01
RV24
RV26
RV31
RV34
QV09
PVM1
CV01
CV13
QV02
QV03
LV01
RV10
RV01
RV04
QV01
RV02
RV47
K851
RV36
RV44
CV24
CV04
CV05
K852
K850
RV48
K849
XV01
K848
RV06
RV49
RV08
RV07
RV09
K847
RV11

A4LXU CONTROL A P.W.B.


JY02
AV IN 3
RY71
RY74
KM01
CY71
RC71
A4LXU CONTROL A P.W.B.
CC70
KM02
KM03
RY70
KM04
PFVA
KM06
KM05
LY70
CY72
CY70
RA72
KM07
RA76
DA70
RA71
RA82
CY79
CA71
QA70
RA73
KM09
RA79
RA74
CA72
RA78
RA81
QA71
KM08
RA77
CA70
RA75
DA71
RA80
RM11
DM02
CM01
DM01
RM10
RM14
CM05
KM10
QM02
KM12
PF2B
KM13
QM01
RM02
RM04
CM04
RM01
RM03
CM02
HM01


U002
LP01
LP02
RP08
ZP02
KP01
CP01
CP02
PPI1
RP11
RP10
RP09
B
G
R
RP14
RP13
RP12
RP23
RP18
KF05
KP04
DP03
RP07
CP35
CP34
DP04
DP07
DP08
DP09
DP10
RP31
CP31
RP32
LP31
IP31
DP05
KP06
KP07
RP34
CP37
CP36
CP33
CP32
RP33
H.POSITION
ZP31
RP04
RP03
RP05
RP06
DP01
DP19
KP08
PPI2
A4LXU PINP P.W.B.

A4LXU P in P P.W.B.


RJ06
CJ10
CJ01
PCXB
RJ02
RJ01
KJ01
RJ08
QJ01
RJ03
QJ02
RJ09
RJ05
XJ01
KJ02
CJ02
RJ04
RJ12
RJ10
CJ08
CJ05
RJ34
GAIN
KJ03
CJ03
KJ04
RJ07
KJ05
RJ21
RJ17
QJ03
RJ20
RJ11
KJ06
RJ13
CJ04
XJ02
QJ04
KJ09
KJ10
RJ33
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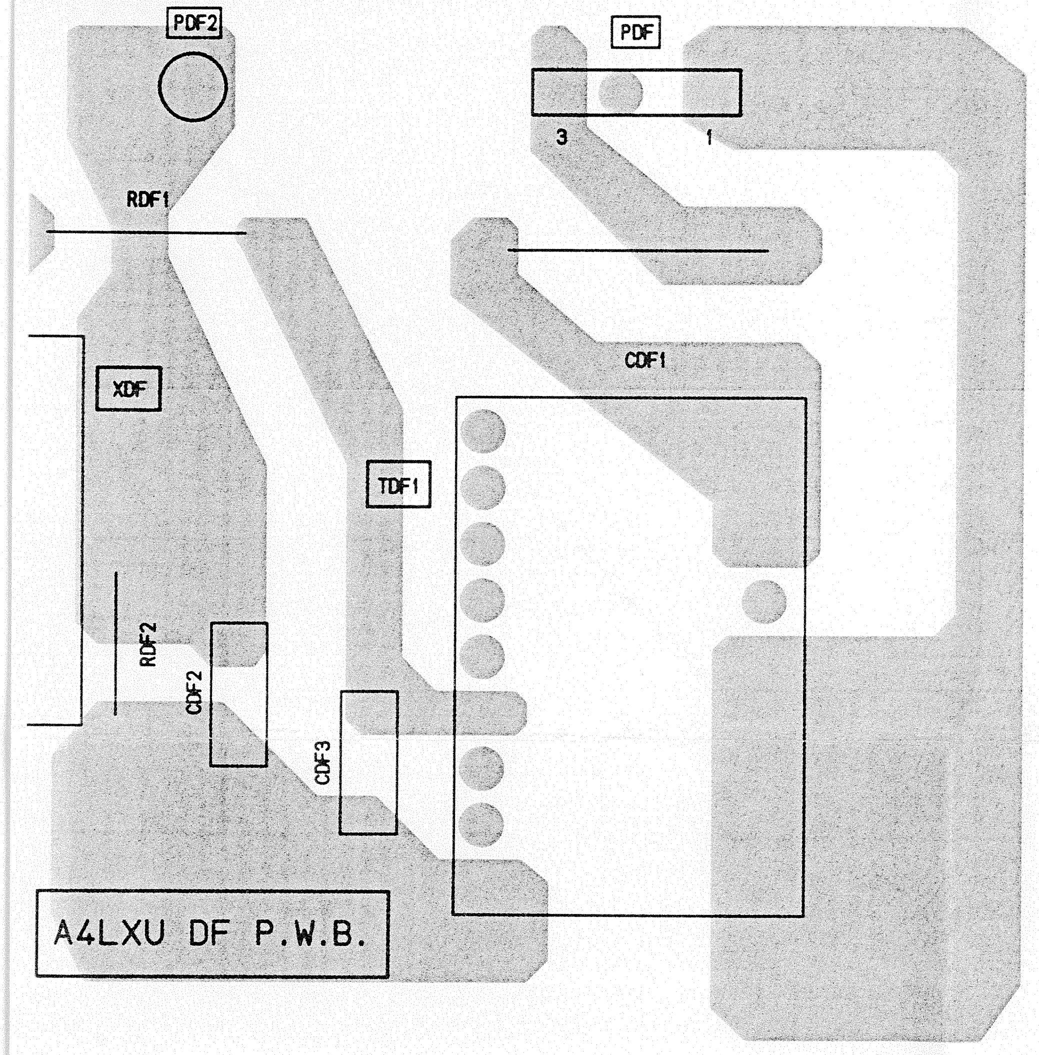
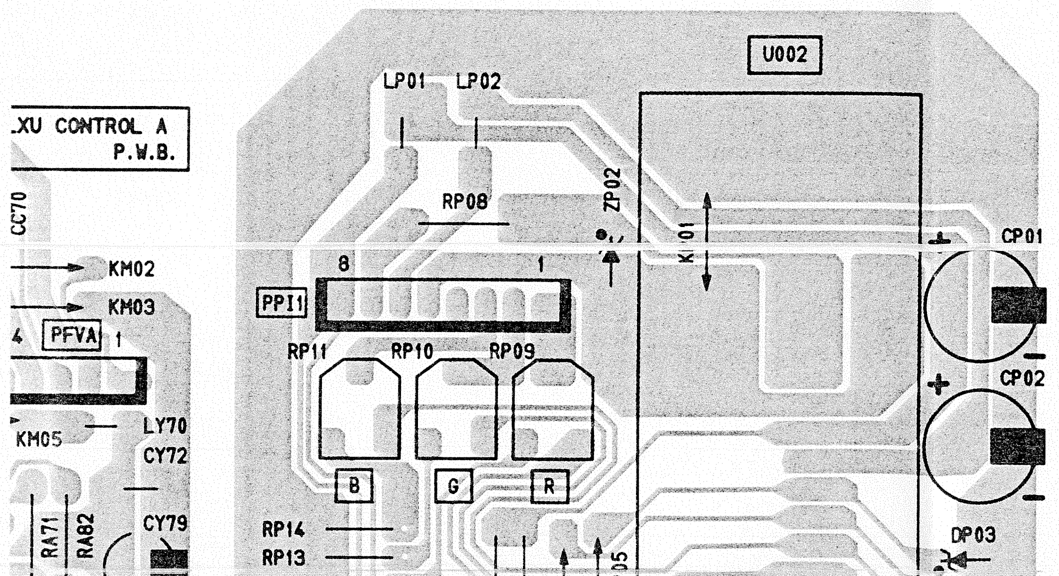
RJ30
RJ19
RJ16
QJ09
QJ07
RJ25
CJ09
QJ05
RJ27
QJ08
RJ26
RJ28
KJ08
RJ24
RJ31
CJ06
LJ02
KJ11
LJ01
A4LXU COMB FILTER P.W.B.
PHASE 1
SM01
MENU
RM15
A4

A4L

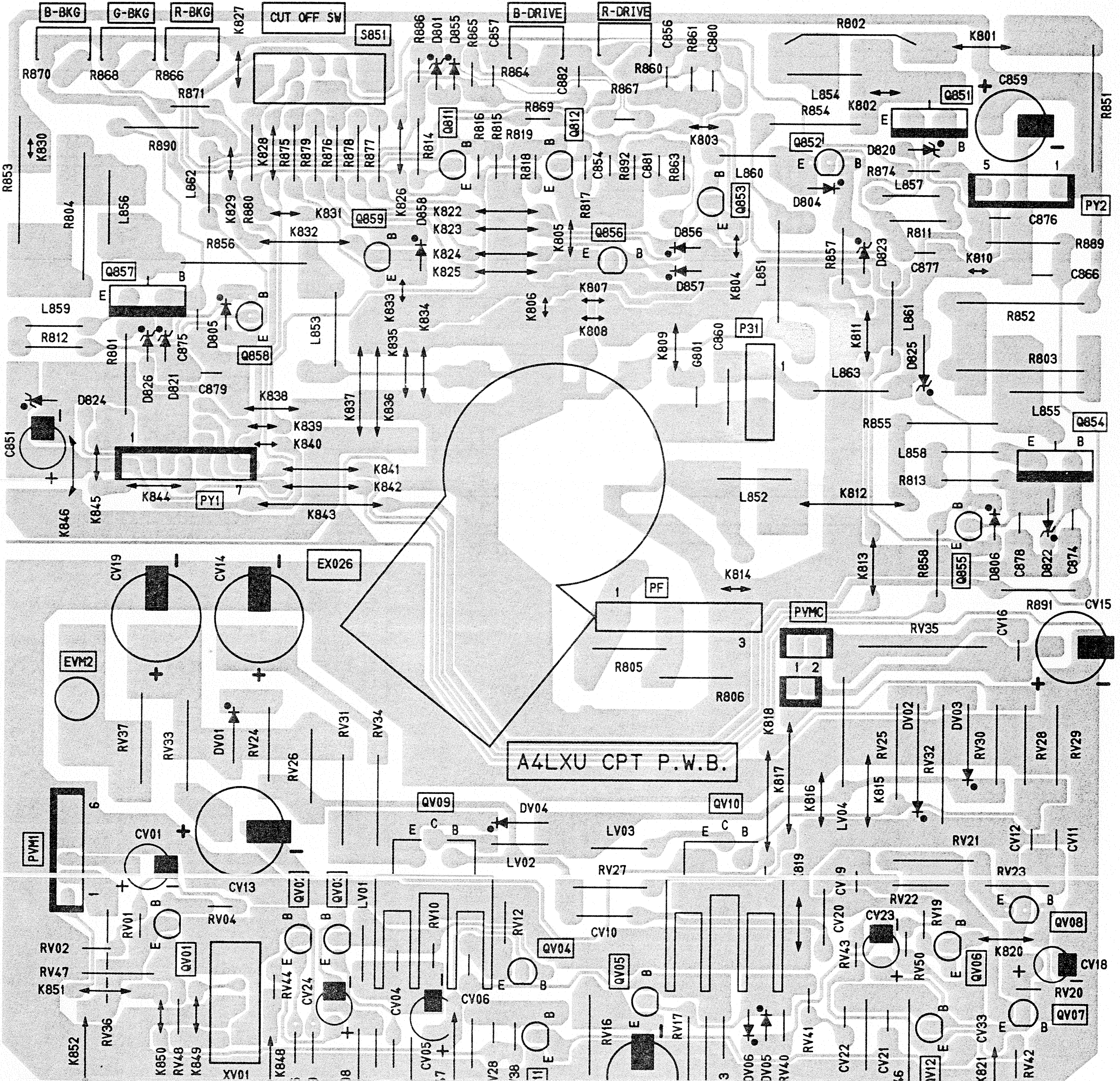
PRINTED WIRING BOARD FOIL PATTERN

A4LXU DF P.W.B.


PDF2
PDF
3
1
RDF1
XDF
CDF1
TDF1
RDF2
CDF2
CDF3
A4LXU DF P.W.B.


LXU CONTROL A
P.W.B.
U002
LP01
LP02
RP08
ZP02
K101
CP01
CP02
DP03
CC70
KM02
KM03
PFVA
KM05
LY70
CY72
CY79
RA71
RA82
PPI1
8
1
RP11
RP10
RP09
B
G
R
RP14
RP13

A4LXU C.P.T. P.W.B.


B-BKG
G-BKG
R-BKG
K827
CUT OFF SW
S851
R886
D801
D855
R865
C857
B-DRIVE
R-DRIVE
C856
R861
C880
R802
K801
R851
R870
R868
R866
R871
R864
C882
R860
R867
R869
L854
R854
K802
Q851
C859
R853
K830
R890
K828
R875
R879
R876
R878
R877
R814
Q811
R816
R815
R819
Q812
R818
C854
R892
C881
R863
K803
Q852
D820
R874
L857
PY2
C876
R804
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L862
K829
R880
K831
K832
Q859
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D858
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D804
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C877
C866
Q857
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C860
P31
K811
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D825
R803
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R801
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PY1
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CV14
K814
K813
R858
Q855
D806
C878
D822
C874
PF
PVMC
R891
CV15
CV16
RV35
EVM2
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R806
RV37
RV33
DV01
RV24
RV26
RV31
RV34
A4LXU CPT P.W.B.
K818
K817
K816
K815
RV25
DV02
RV32
DV03
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RV28
RV29
PVM1
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DV04
LV03
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CV13
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RV23
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RV04
QV02
QV03
LV01
RV10
RV12
CV10
CV20
CV19
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CV23
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RV50
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CV18
RV20
QV07
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RV36
K850
RV48
K849
XV01
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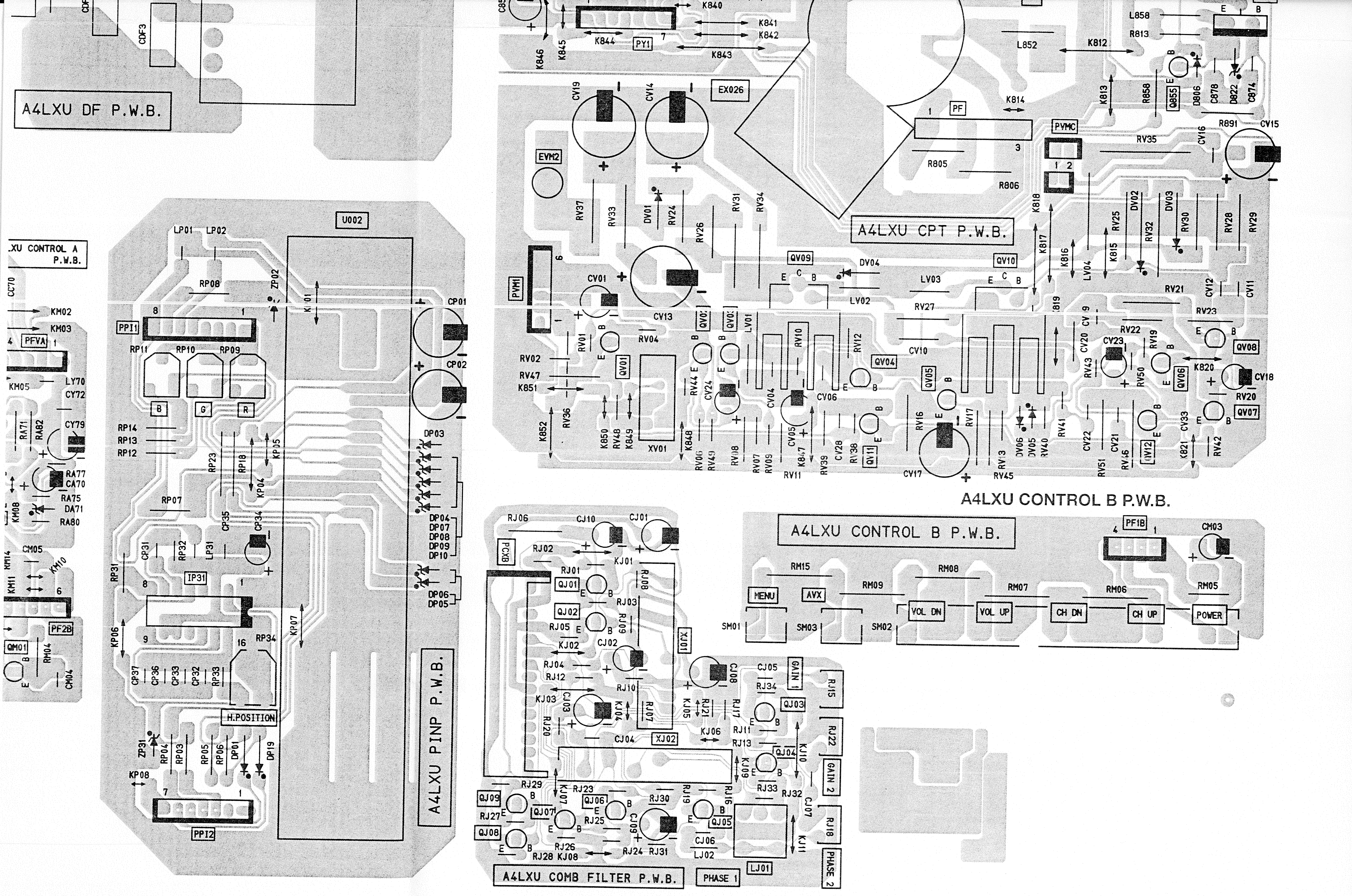
CV21
CV33
K821
RV42



A4LXU DF P.W.B.
CDF3
XU CONTROL A P.W.B.
A4LXU CPT P.W.B.
A4LXU PINP P.W.B.
A4LXU CONTROL B P.W.B.
A4LXU COMB FILTER P.W.B.
U002
PPI1
PPI2
IP31
H.POSITION
EX026
EVM2
PVM1
PVMC
PF
PY1
XV01
PCXB
XJ01
XJ02
LJ01
GAIN 1
GAIN 2
PHASE 1
PHASE 2
PF1B
PFVA
PF2B
MENU
AVX
VOL DN
VOL UP
CH DN
CH UP
POWER
SM01
SM02
SM03
RM05
RM06
RM07
RM08
RM09
RM15
CM03
QM01
RM04
CM04
CM05
KM02
KM03
KM05
KM08
KM10
KM11
KM14
LY70
CY72
CY79
RA71
RA82
RA77
CA70
RA75
DA71
RA80
CC70
CP01
CP02
DP03
DP04
DP07
DP08
DP09
DP10
DP06
DP05
DP01
DP19
ZP02
ZP31
KP01
KP04
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KP07
KP08
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RP14
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RP31
RP32
RP33
RP34
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CP32
CP33
CP34
CP35
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CP37
B
G
R
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CV04
CV05
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CV12
CV13
CV14
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CV18
CV19
CV20
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CV28
CV33
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QV06
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QV09
QV10
QV11
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DV06
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RJ23
RJ24
RJ25
RJ26
RJ27
RJ28
RJ29
RJ30
RJ31
RJ32
RJ33
RJ34
E
B
C

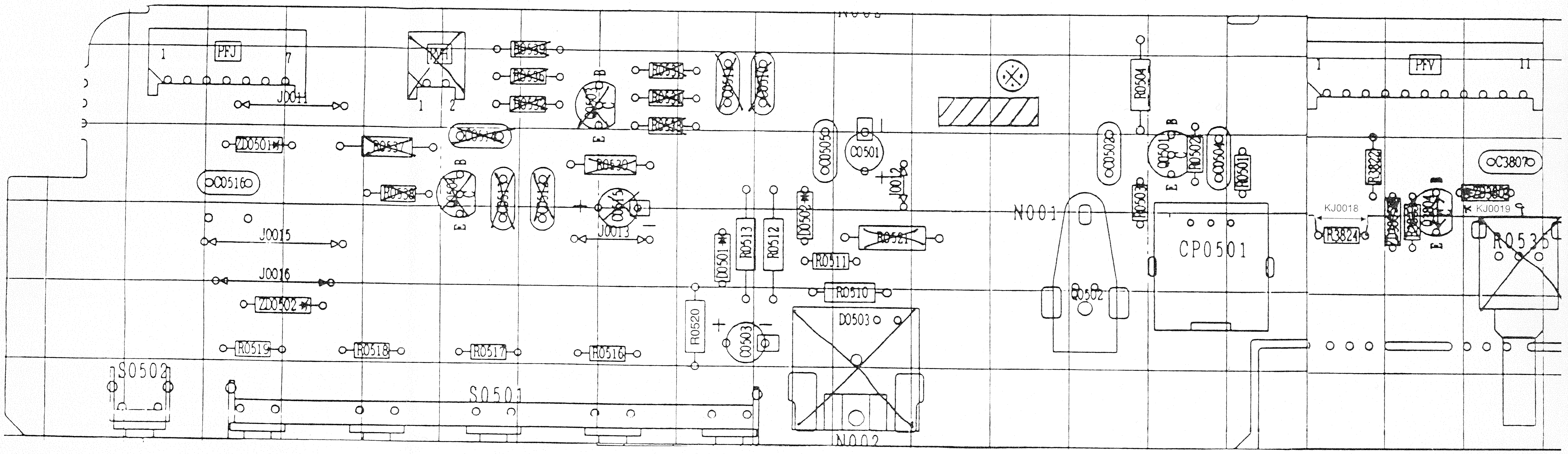
A4LXU CONTROL B P.W.B.

A4LXU P in P P.W.B.

A4LXU COMB FILTER P.W.B.

PRINTED WIRING BOARD FOIL PATTERN

A4LXU CONTROL P.W.B. (35TX79K ONLY)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7
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C0516
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R0518
R0517
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S0502
S0501
PFI
R0538
R0530
J0013
N002
C0505
C0501
J0012
D0502
R0513
R0512
D0501
R0511
R0521
R0510
R0520
C0503
D0503
N001
Q0502
R0504
C0502
Q0501
R0502
C0504
R0501
R0503
CP0501
PFV
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R3822
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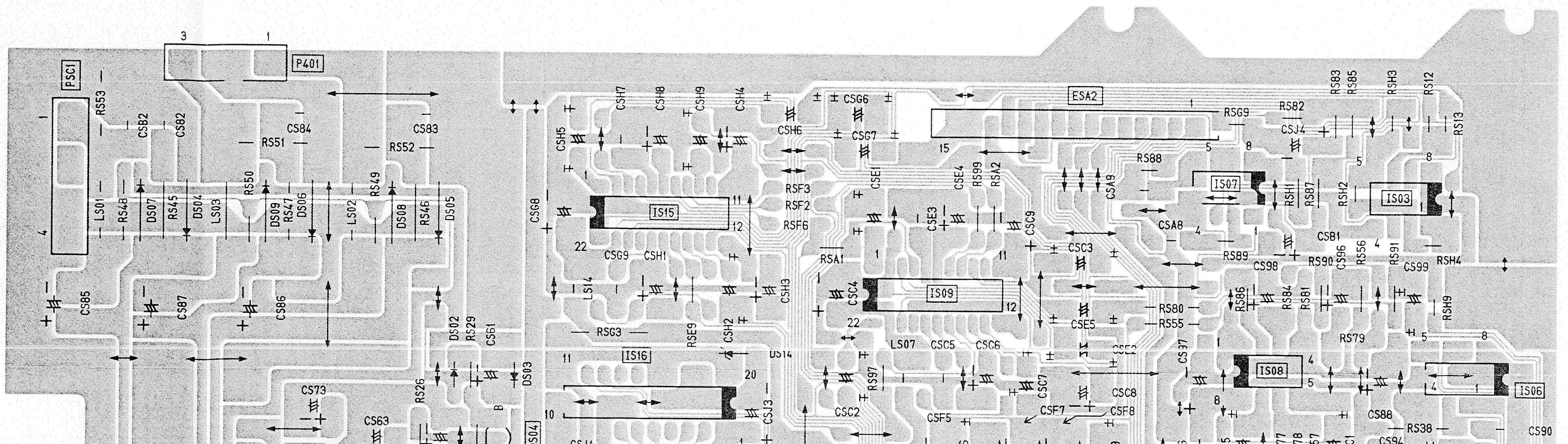
KJ0019
R3824
R0535
B
E

A4LXU SURROUND P.W.B. (35UX70BA ONLY)


PSC1
P401
3
1
RS53
CS82
RS51
CS84
CS83
RS52
LS01
RS48
DS07
RS45
DS04
LS03
RS50
DS09
RS47
DS06
LS02
RS49
DS08
RS46
DS05
CS85
CS87
CS86
DS02
RS29
CS61
DS03
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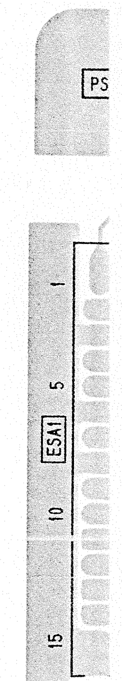
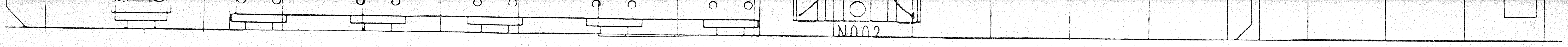
RS26
CS68
CSH5
CSH7
CSH8
CSH9
CSI4
CSH6
CSG6
CSG7
IS15
IS16
IS09
IS07
IS03
IS08
IS06
ESA2
ESA1
RSG9
RS82
CSJ4
RS88
RSF3
RSF2
RSF6
RSA1
CSC4
CSC3
CSA8
CSB1
RS89
CS98
RS90
CS96
RS56
RS91
CS99
RSH4
RSH9
RS80
RS55
CSE5
RS79
LS07
CSC5
CSC6
RSG3
CSH1
CSG9
RSE9
CSH2
CSH3
RS97
CSC2
CSF5
CSF7
CSF8
CSC8
CS88
RS38
CS90
RS83
RS85
RSH3
RS12
RS13
RSH1
RS87
RSH2
15
8
5
4
22
12
11
20
10

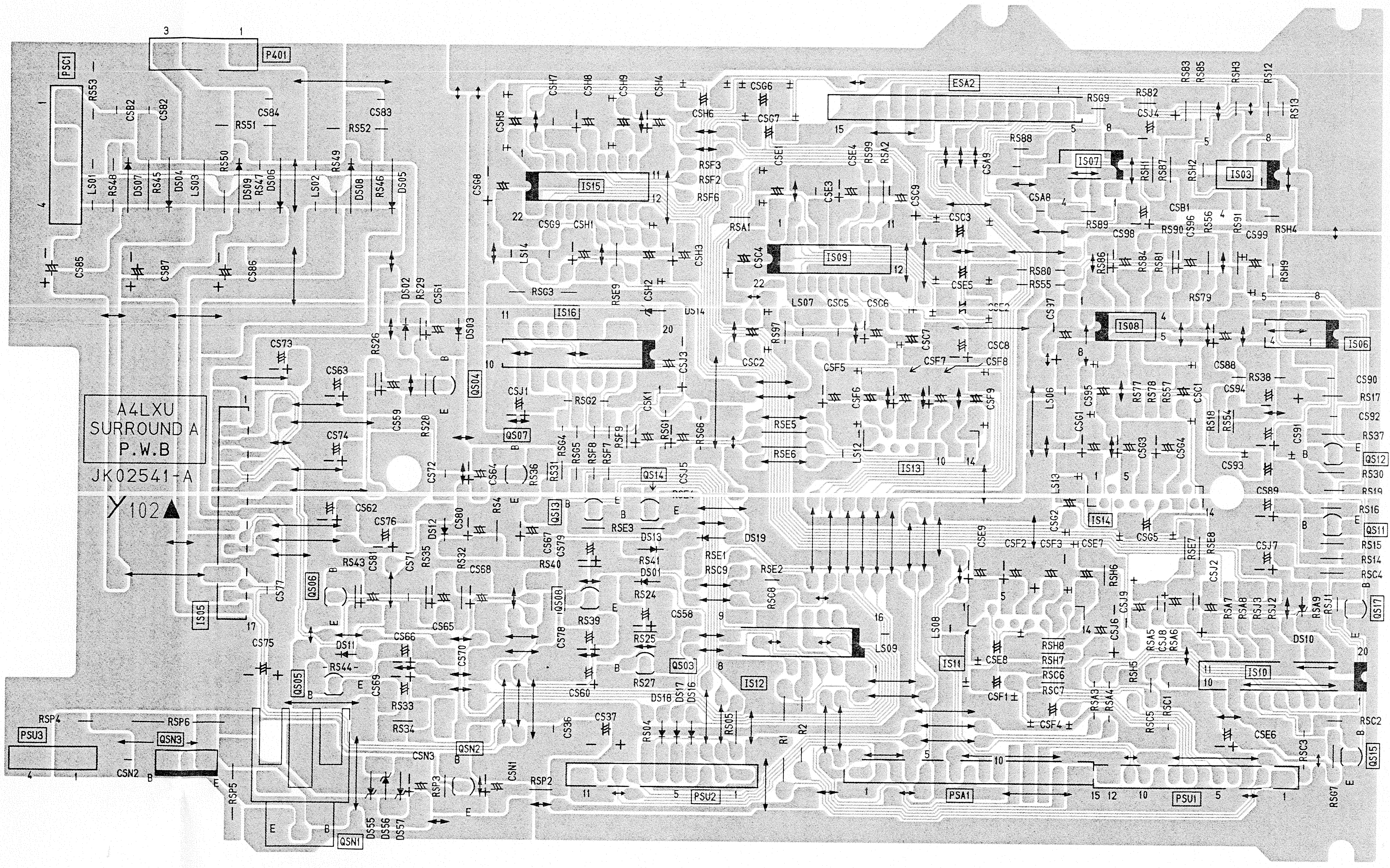
A4L

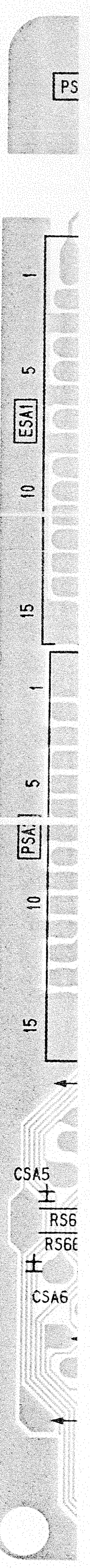




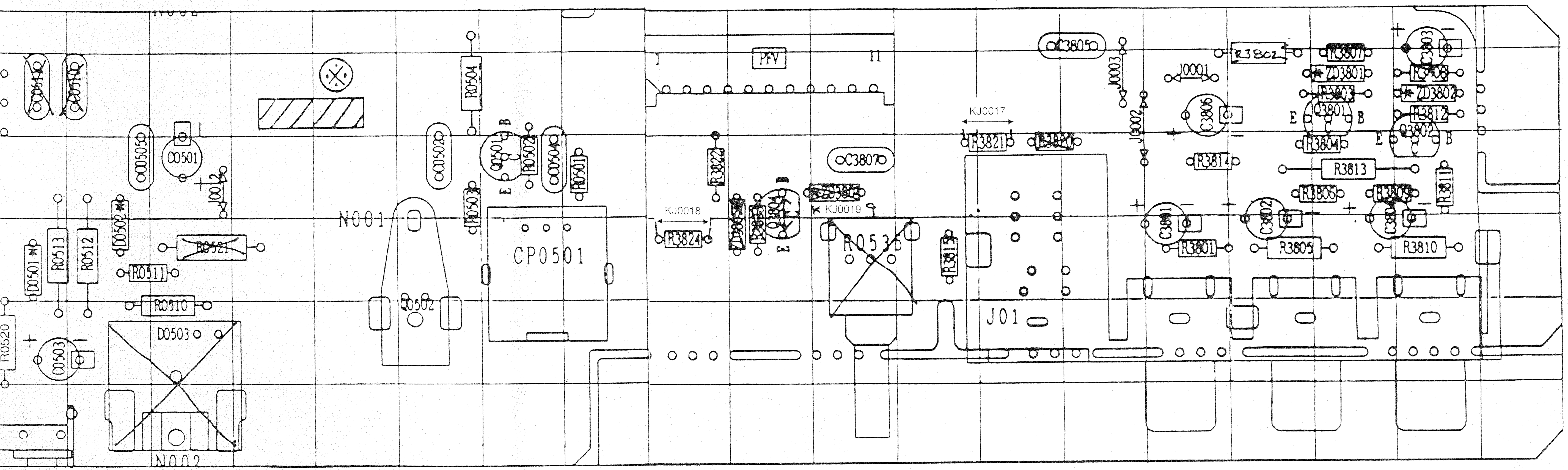
A4LXU SURROUND P.W.B. (35UX70BA ONLY)

A4L

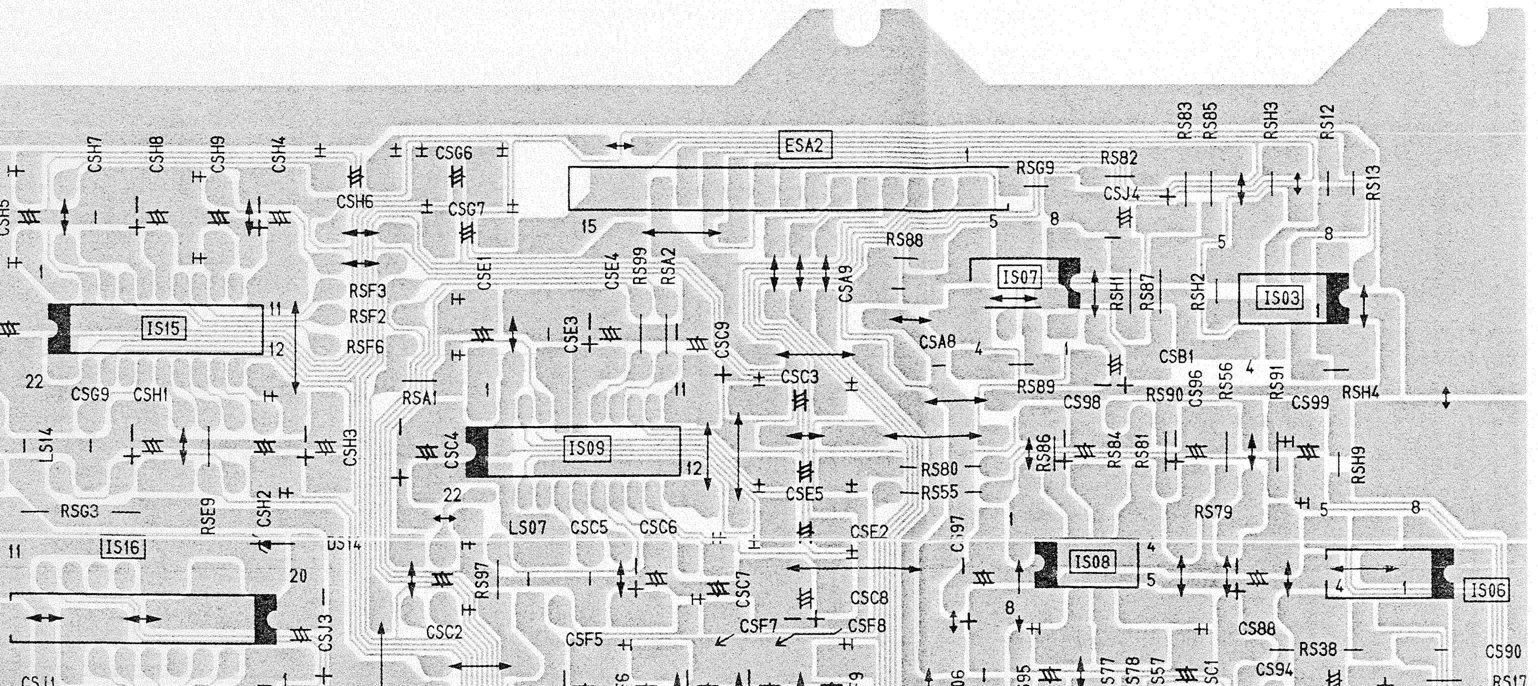

A4LXU
SURROUND A
P.W.B
JK02541-A
Y102
P401
PSC1
PSU1
PSU2
PSU3
PSA1
ESA2
IS03
IS05
IS06
IS07
IS08
IS09
IS10
IS11
IS12
IS13
IS14
IS15
IS16
QS03
QS04
QS05
QS06
QS07
QS11
QS12
QS13
QS14
QS15
QS17
QSN1
QSN2
QSN3


PS
ESA1
PSA
CSA5
CSA6

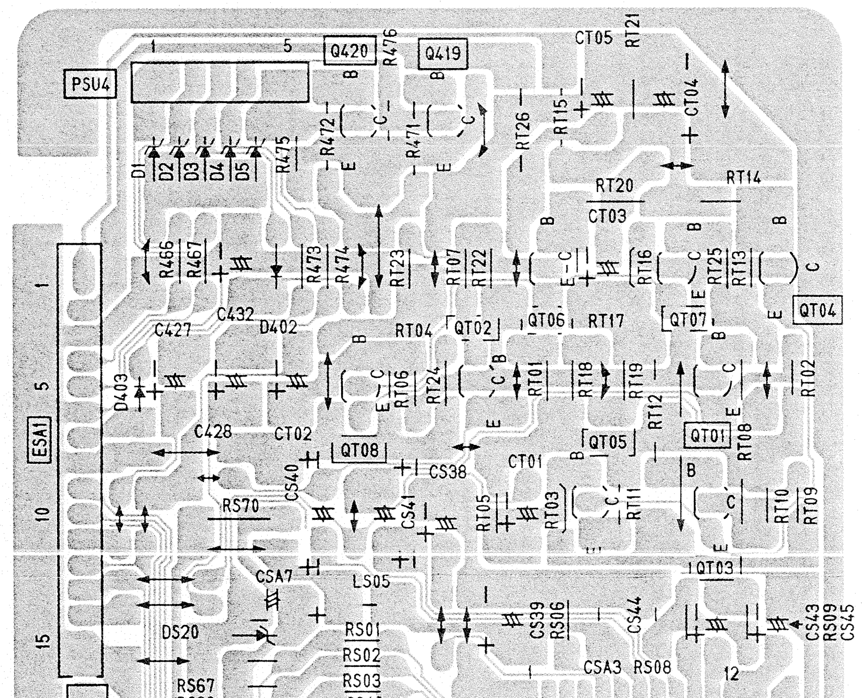
PRINTED WIRING BOARD FOIL PATTERN


C0512
C0510
C0505
C0501
J0012
C0502
Q0501
R0504
R0502
C0504
R0501
R0503
D0502
R0513
R0512
D0501
R0521
R0511
R0510
D0503
R0520
C0503
N001
N002
Q0502
CP0501
PFV
I
11
R3822
KJ0018
R3824
R3823
D3803
Q3804
C3807
KJ0019
R0535
R3815
KJ0017
R3821
R3820
J01
C3805
J0003
J0002
J0001
C3806
R3814
C3801
R3801
R3802
R3807
ZD3801
R3803
Q3801
R3804
R3813
R3806
C3802
R3805
C3803
R3808
ZD3802
R3812
Q3802
R3809
R3811
C3804
R3810
E
B

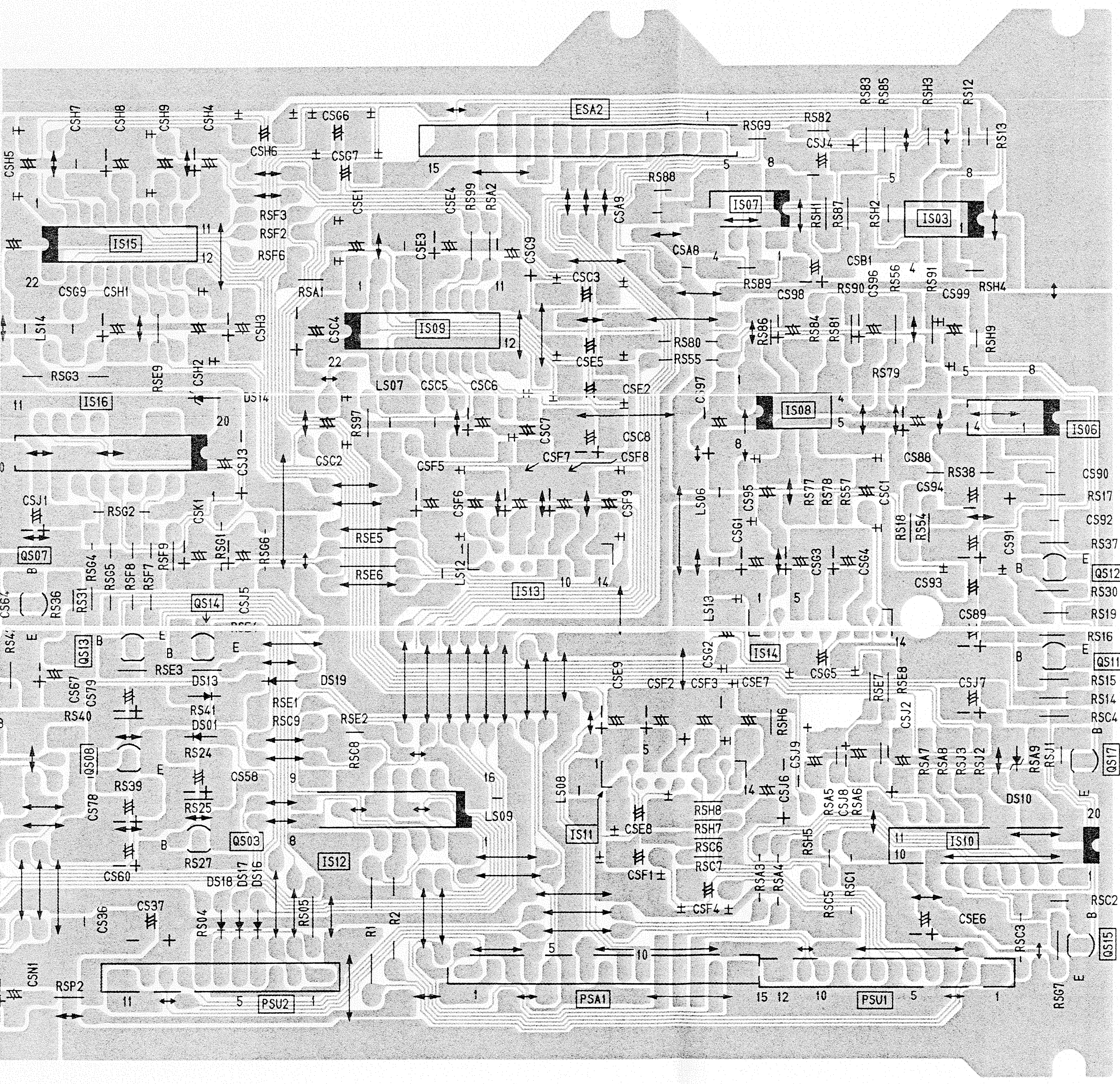
LXU SURROUND P.W.B. (35UX70BA ONLY)


ESA2
IS15
IS16
IS09
IS07
IS03
IS08
IS06
CSH7
CSH8
CSH9
CSH4
CSG6
CSG7
CSH6
RSF3
RSF2
RSF6
RSA1
CSG9
CSH1
LS14
RSG3
RSE9
CSH2
CSH3
CSC4
LS07
CSC5
CSC6
CSC2
CSF5
CSF7
CSF8
CSC8
CSC7
RS97
CSE1
CSE3
CSE4
RS99
RSA2
CSC9
CSC3
CSA9
CSA8
CSE5
CSE2
RS88
RSG9
RS82
CSJ4
RS83
RS85
RSH3
RS12
RS13
RSH1
RS87
RSH2
CSB1
RS89
CS98
RS90
CS96
RS56
RS91
CS99
RSH4
RS80
RS55
RS86
RS84
RS81
RSH9
RS79
CS88
RS38
CS94
CS90
RS17
C197

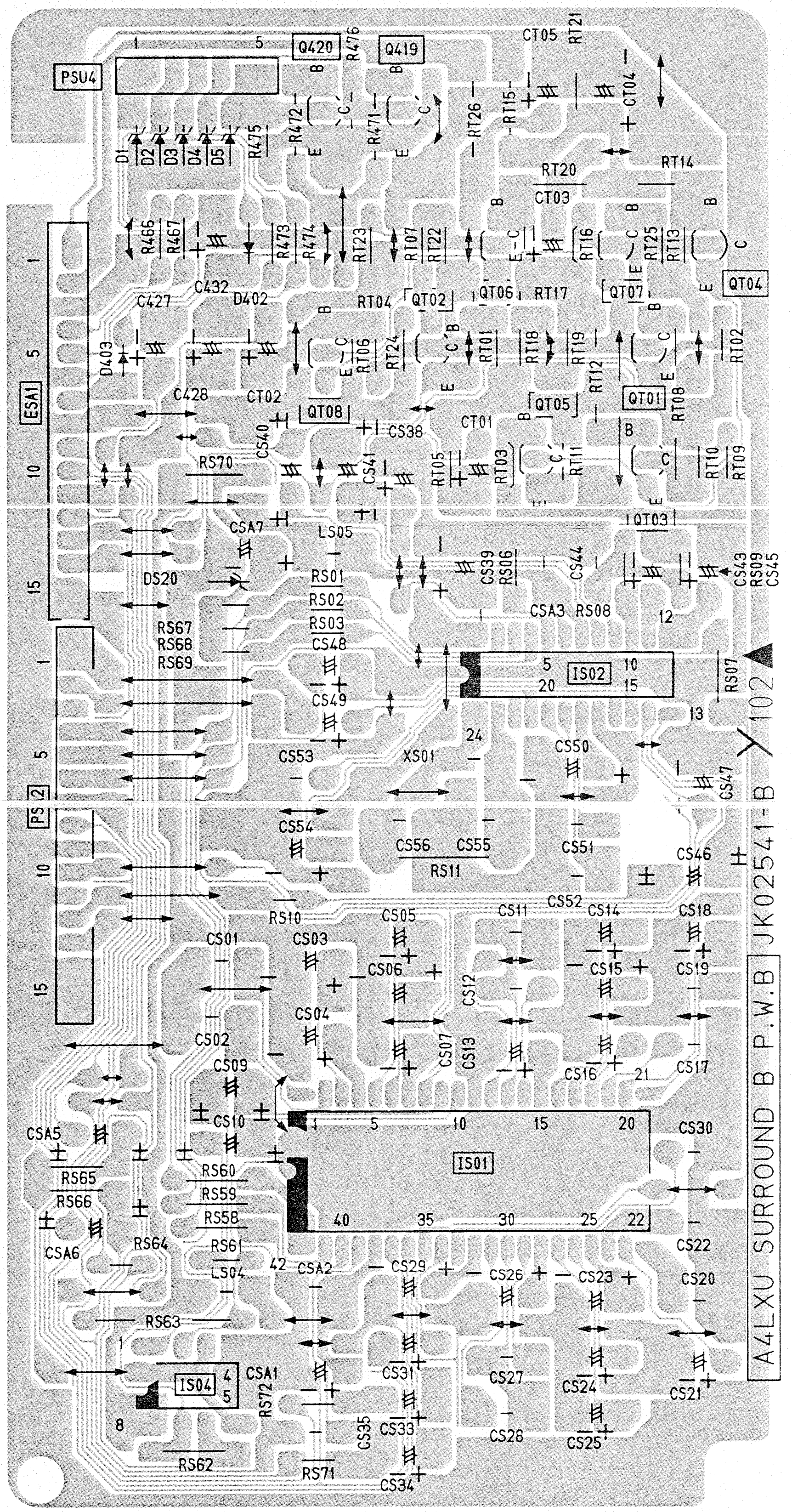
A4LXU SURROUND P.W.B. (35UX70BA ONLY)


PSU4
Q420
R476
Q419
CT05
RT21
CT04
D1
D2
D3
D4
D5
R475
R472
R471
RT26
RT15
RT20
RT14
CT03
R466
R467
R473
R474
RT23
RT07
RT22
RT16
RT25
RT13
QT04
C427
C432
D402
RT04
QT02
QT06
RT17
QT07
D403
RT06
RT24
RT01
RT18
RT19
RT12
RT02
C426
CT02
QT08
CS38
CT01
QT05
QT01
RT08
ESA1
RS70
CS40
CS41
RT05
RT03
RT11
RT10
RT09
CSA7
LS05
QT03
DS20
RS01
RS02
RS03
CS39
RS06
CS44
CS43
RS09
CS45
CSA3
RS08
RS67

4LXU SURROUND P.W.B. (35UX70BA ONLY)


ESA2
IS15
IS09
IS07
IS03
IS16
IS08
IS06
IS13
IS14
IS12
IS11
IS10
PSU2
PSA1
PSU1

A4LXU SURROUND P.W.B. (35UX70BA ONLY)


PSU4
ESA1
PSA2
IS02
IS01
IS04
A4LXU SURROUND B P.W.B JK02541-B Y102

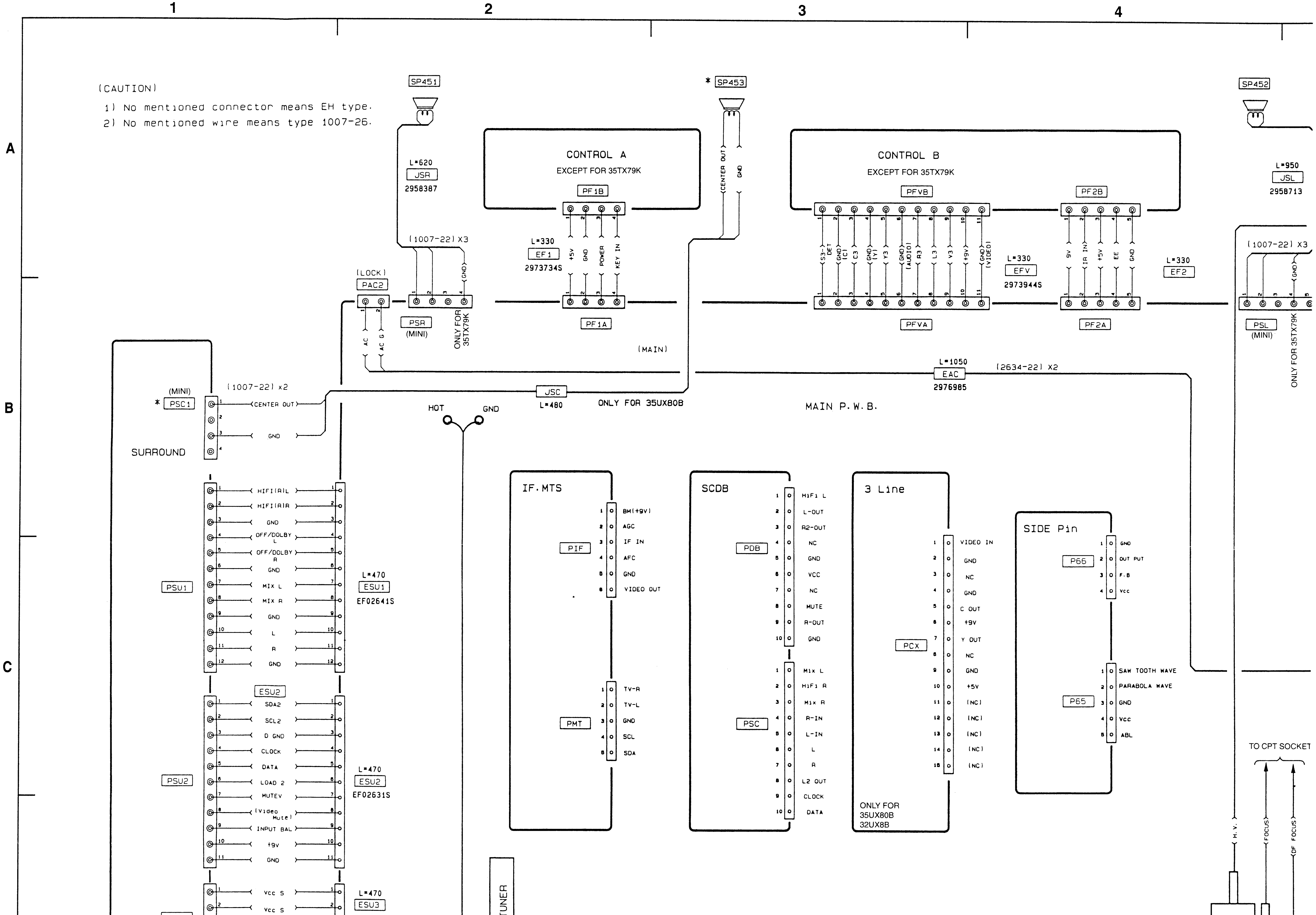
PROD
any o
throug

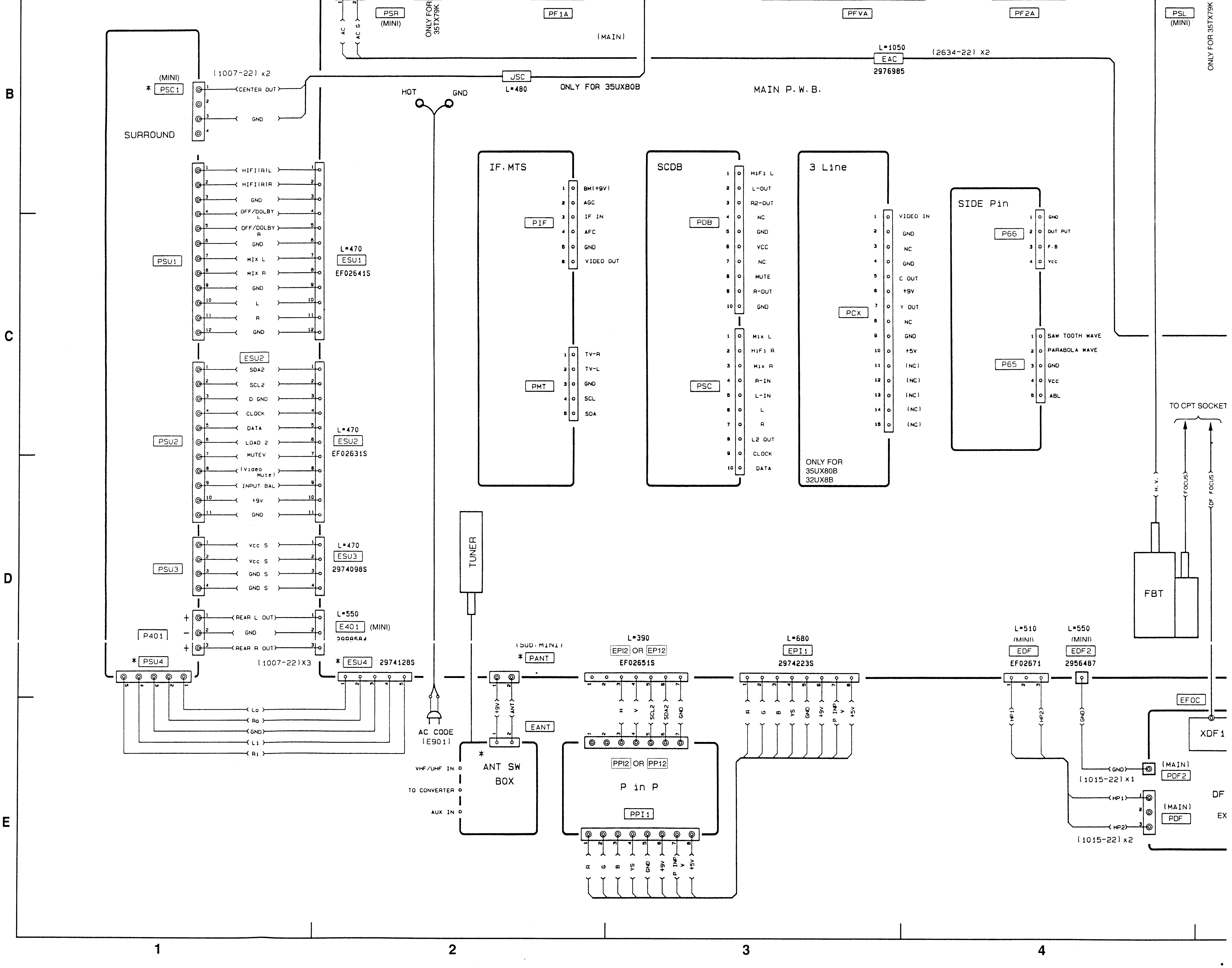
A4LXU CIRCUIT SCHEMATIC DIAGRAM

(CAUTION)

1) No mentioned connector means EH type.

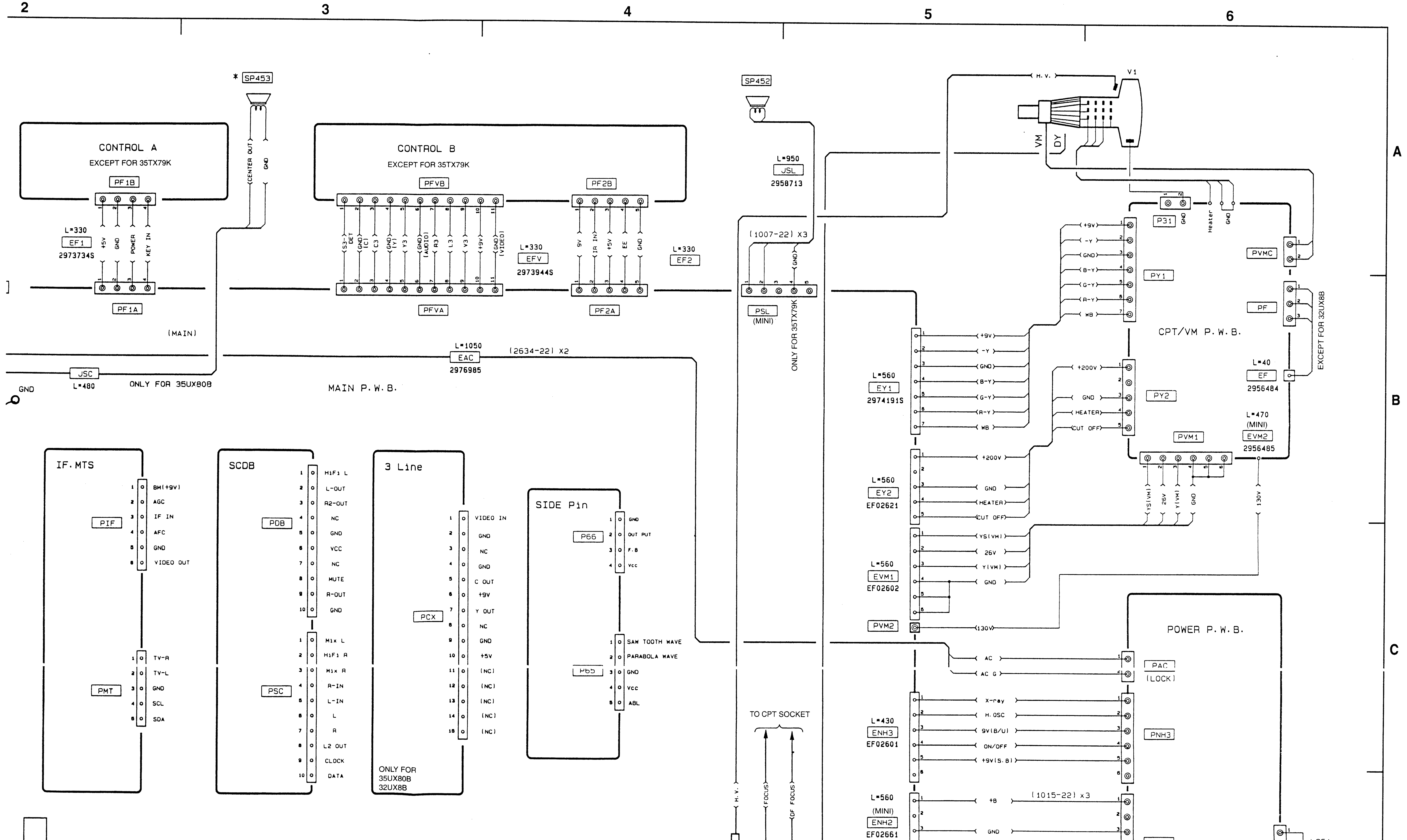
2) No mentioned wire means type 1007-26.

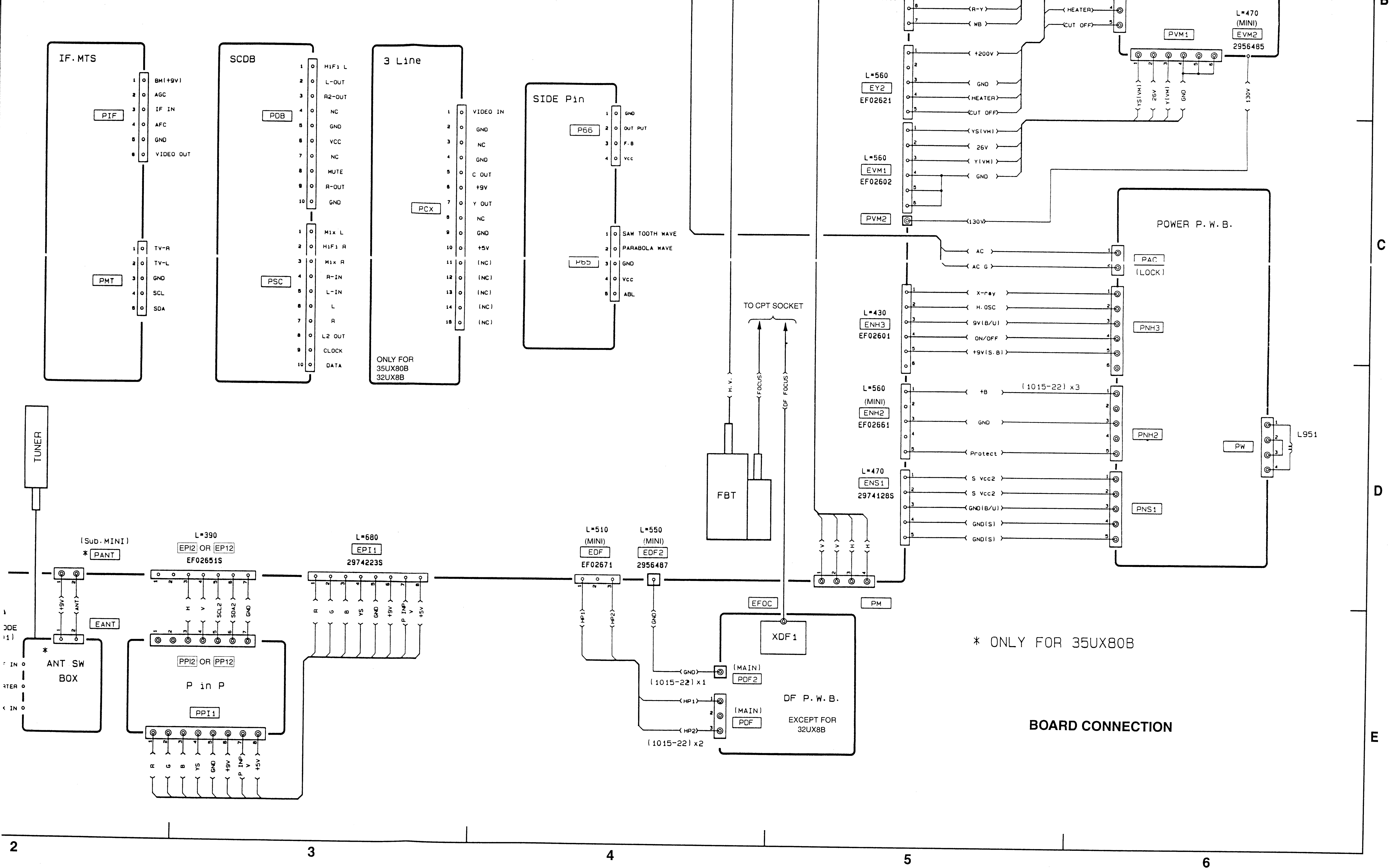

1
2
3
4
A
B
C
SP451
*SP453
SP452
L=620
JSR
2958387
(1007-22) X3
(LOCK)
PAC2
AC
AC G
PSR
(MINI)
ONLY FOR 35TX79K
CONTROL A
EXCEPT FOR 35TX79K
PF1B
PF1A
L=330
EF1
2973734S
+5V
GND
POWER
KEY IN
CENTER OUT
GND
(MAIN)
CONTROL B
EXCEPT FOR 35TX79K
PFVB
PFVA
S3-DET
GND (C)
C3
GND (Y)
Y3
GND (AUDIO)
R3
L3
V3
+9V
GND (VIDEO)
L=330
EFV
2973944S
PF2B
PF2A
9V
IR IN
+5V
EE
GND
L=330
EF2
L=950
JSL
2958713
(1007-22) X3
PSL
(MINI)
ONLY FOR 35TX79K
L=1050
EAC
2976985
(2634-22) X2
(MINI)
*PSC1
(1007-22) x2
CENTER OUT
GND
SURROUND
JSC
L=480
ONLY FOR 35UX80B
MAIN P.W.B.
HOT
GND
PSU1
HIFI(R)L
HIFI(R)R
GND
OFF/DOLBY L
OFF/DOLBY R
GND
MIX L
MIX R
GND
L
R
GND
L=470
ESU1
EF02641S
ESU2
PSU2
SDA2
SCL2
D GND
CLOCK
DATA
LOAD 2
MUTEV
(Video Mute)
INPUT BAL
+9V
GND
L=470
ESU2
EF02631S
Vcc S
Vcc S
L=470
ESU3
TUNER
IF.MTS
PIF
BM(+9V)
AGC
IF IN
AFC
GND
VIDEO OUT
PMT
TV-R
TV-L
GND
SCL
SDA
SCDB
PDB
HiFi L
L-OUT
R2-OUT
NC
GND
VCC
NC
MUTE
R-OUT
GND
PSC
Mix L
HiFi R
Mix R
R-IN
L-IN
L
R
L2 OUT
CLOCK
DATA
3 Line
PCX
VIDEO IN
GND
NC
GND
C OUT
+9V
Y OUT
NC
GND
+5V
(NC)
(NC)
(NC)
(NC)
(NC)
ONLY FOR 35UX80B 32UX8B
SIDE Pin
P66
GND
OUT PUT
F.B
Vcc
P65
SAW TOOTH WAVE
PARABOLA WAVE
GND
Vcc
ABL
TO CPT SOCKET
H.V.
FOCUS
DF FOCUS


PSR
(MINI)
ONLY FOR 35TX79K
AC
AC G
PF1A
(MAIN)
PFVA
PF2A
PSL
(MINI)
ONLY FOR 35TX79K
L=1050
EAC
2976985
(2634-22) x2
JSC
L=480
ONLY FOR 35UX80B
MAIN P.W.B.
(MINI)
* PSC1
(1007-22) x2
CENTER OUT
GND
SURROUND
HOT
GND
PSU1
HIFI(R)L
HIFI(R)R
GND
OFF/DOLBY L
OFF/DOLBY R
GND
MIX L
MIX R
GND
L
R
GND
L=470
ESU1
EF02641S
ESU2
PSU2
SDA2
SCL2
D GND
CLOCK
DATA
LOAD 2
MUTEV
(Video Mute)
INPUT BAL
+9V
GND
L=470
ESU2
EF02631S
PSU3
Vcc S
Vcc S
GND S
GND S
L=470
ESU3
2974098S
P401
REAR L OUT
GND
REAR R OUT
L=550
E401 (MINI)
2998584
* PSU4
(1007-22)X3
* ESU4 2974128S
Lo
Ro
GND
L1
R1
IF. MTS
PIF
BM(+9V)
AGC
IF IN
AFC
GND
VIDEO OUT
PMT
TV-R
TV-L
GND
SCL
SDA
SCDB
PDB
HiFi L
L-OUT
R2-OUT
NC
GND
VCC
NC
MUTE
R-OUT
GND
PSC
Mix L
HiFi R
Mix R
R-IN
L-IN
L
R
L2 OUT
CLOCK
DATA
3 Line
PCX
VIDEO IN
GND
NC
GND
C OUT
+9V
Y OUT
NC
GND
+5V
(NC)
(NC)
(NC)
(NC)
(NC)
ONLY FOR
35UX80B
32UX8B
SIDE Pin
P66
GND
OUT PUT
F.B
Vcc
P65
SAW TOOTH WAVE
PARABOLA WAVE
GND
Vcc
ABL
TO CPT SOCKET
H.V.
FOCUS
DF FOCUS
FBT
TUNER
AC CODE
(E901)
(SUB. MINI)
* PANT
+9V
ANT
EANT
*
ANT SW
BOX
VHF/UHF IN
TO CONVERTER
AUX IN
L=390
EPI2 OR EP12
EF02651S
H
V
SCL2
SDA2
GND
PPI2 OR PP12
P in P
PPI1
R
G
B
YS
GND
+9V
P INP V
+5V
L=680
EPI1
2974223S
L=510
(MINI)
EDF
EF02671
L=550
(MINI)
EDF2
2956487
HP1
HP2
GND
EFOC
XDF1
(MAIN)
PDF2
(1015-22) x1
(MAIN)
PDF
(1015-22) x2
DF
EX
B
C
D
E
1
2
3
4

PRODUCT SAFETY NOTE: Components marked with a ⚠ and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

A4LXU CIRCUIT SCHEMATIC DIAGRAM


2
3
4
5
6
A
B
C
* SP453
SP452
CENTER OUT
GND
CONTROL A
EXCEPT FOR 35TX79K
PF1B
+5V
GND
POWER
KEY IN
L=330
EF1
2973734S
PF1A
CONTROL B
EXCEPT FOR 35TX79K
PFVB
S3-DET
GND (C)
C3
GND (Y)
Y3
GND (AUDIO)
R3
L3
V3
+9V
GND (VIDEO)
L=330
EFV
2973944S
PFVA
PF2B
9V
IR IN
+5V
EE
GND
L=330
EF2
PF2A
L=950
JSL
2958713
(1007-22) X3
GND
PSL
(MINI)
ONLY FOR 35TX79K
(MAIN)
L=1050
EAC
2976985
(2634-22) X2
JSC
L=480
ONLY FOR 35UX80B
GND
MAIN P. W. B.
H. V.
V1
VM
DY
P31
GND
Heater
GND
PVMC
+9V
-Y
GND
B-Y
G-Y
R-Y
WB
PY1
PF
EXCEPT FOR 32UX8B
CPT/VM P. W. B.
+200V
GND
HEATER
CUT OFF
PY2
L=40
EF
2956484
L=470
(MINI)
EVM2
2956485
PVM1
YS(VM)
26V
Y(VM)
GND
130V
L=560
EY1
2974191S
L=560
EY2
EF02621
L=560
EVM1
EF02602
PVM2
130V
IF. MTS
PIF
BM(+9V)
AGC
IF IN
AFC
GND
VIDEO OUT
PMT
TV-R
TV-L
GND
SCL
SDA
SCDB
PDB
HiFi L
L-OUT
R2-OUT
NC
GND
VCC
NC
MUTE
R-OUT
GND
PSC
Mix L
HiFi R
Mix R
R-IN
L-IN
L
R
L2 OUT
CLOCK
DATA
3 Line
PCX
VIDEO IN
GND
NC
GND
C OUT
+9V
Y OUT
NC
GND
+5V
(NC)
(NC)
(NC)
(NC)
(NC)
ONLY FOR
35UX80B
32UX8B
SIDE Pin
P66
GND
OUT PUT
F.B
Vcc
P65
SAW TOOTH WAVE
PARABOLA WAVE
GND
Vcc
ABL
TO CPT SOCKET
H. V.
FOCUS
DF FOCUS
POWER P. W. B.
AC
AC G
PAC
(LOCK)
L=430
ENH3
EF02601
X-ray
H. OSC
9V(B/U)
ON/OFF
+9V(S. B)
PNH3
L=560
(MINI)
ENH2
EF02661
+B
GND
(1015-22) x3


IF.MTS
PIF
BM(+9V)
AGC
IF IN
AFC
GND
VIDEO OUT
PMT
TV-R
TV-L
GND
SCL
SDA
SCDB
PDB
HiFi L
L-OUT
R2-OUT
NC
GND
VCC
NC
MUTE
R-OUT
GND
PSC
Mix L
HiFi R
Mix R
R-IN
L-IN
L
R
L2 OUT
CLOCK
DATA
3 Line
PCX
VIDEO IN
GND
NC
GND
C OUT
+9V
Y OUT
NC
GND
+5V
(NC)
ONLY FOR
35UX80B
32UX8B
SIDE Pin
P66
GND
OUT PUT
F.B
Vcc
P65
SAW TOOTH WAVE
PARABOLA WAVE
GND
Vcc
ABL
TO CPT SOCKET
H.V.
FOCUS
DF FOCUS
FBT
R-Y
WB
HEATER
CUT OFF
L=560
EY2
EF02621
+200V
GND
HEATER
CUT OFF
L=560
EVM1
EF02602
YS(VM)
26V
Y(VM)
GND
PVM2
130V
L=470
(MINI)
EVM2
2956485
PVM1
YS(VM)
26V
Y(VM)
GND
130V
POWER P.W.B.
AC
AC G
PAC
(LOCK)
L=430
ENH3
EF02601
X-ray
H.OSC
9V(B/U)
ON/OFF
+9V(S.B)
PNH3
L=560
(MINI)
ENH2
EF02661
+B
(1015-22) x3
GND
Protect
PNH2
PW
L951
L=470
ENS1
2974128S
S Vcc2
S Vcc2
GND(B/U)
GND(S)
GND(S)
PNS1
V
V
H
H
PM
TUNER
(Sub.MINI)
* PANT
+9V
ANT
EANT
* ANT SW BOX
L=390
EPI2 OR EP12
EF02651S
H
V
SCL2
SDA2
GND
PPI2 OR PP12
P in P
PPI1
L=680
EPI1
2974223S
R
G
B
YS
GND
+9V
P INP
V
+5V
L=510
(MINI)
EDF
EF02671
L=550
(MINI)
EDF2
2956487
HP1
HP2
GND
EFOC
XDF1
(MAIN)
PDF2
(1015-22) x1
HP1
HP2
(MAIN)
PDF
(1015-22) x2
DF P.W.B.
EXCEPT FOR
32UX8B
* ONLY FOR 35UX80B
2
3
4
5
6
C
D
E

BOARD CONNECTION

- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.
- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.

CIRCUIT SCHEMATIC DIAGRAM OF 35UX80B/CZ58, 35UX70B/CZ57, 35UX70BA/CZ57P, 35TX79K/CZ56, 32UX8B/CY58

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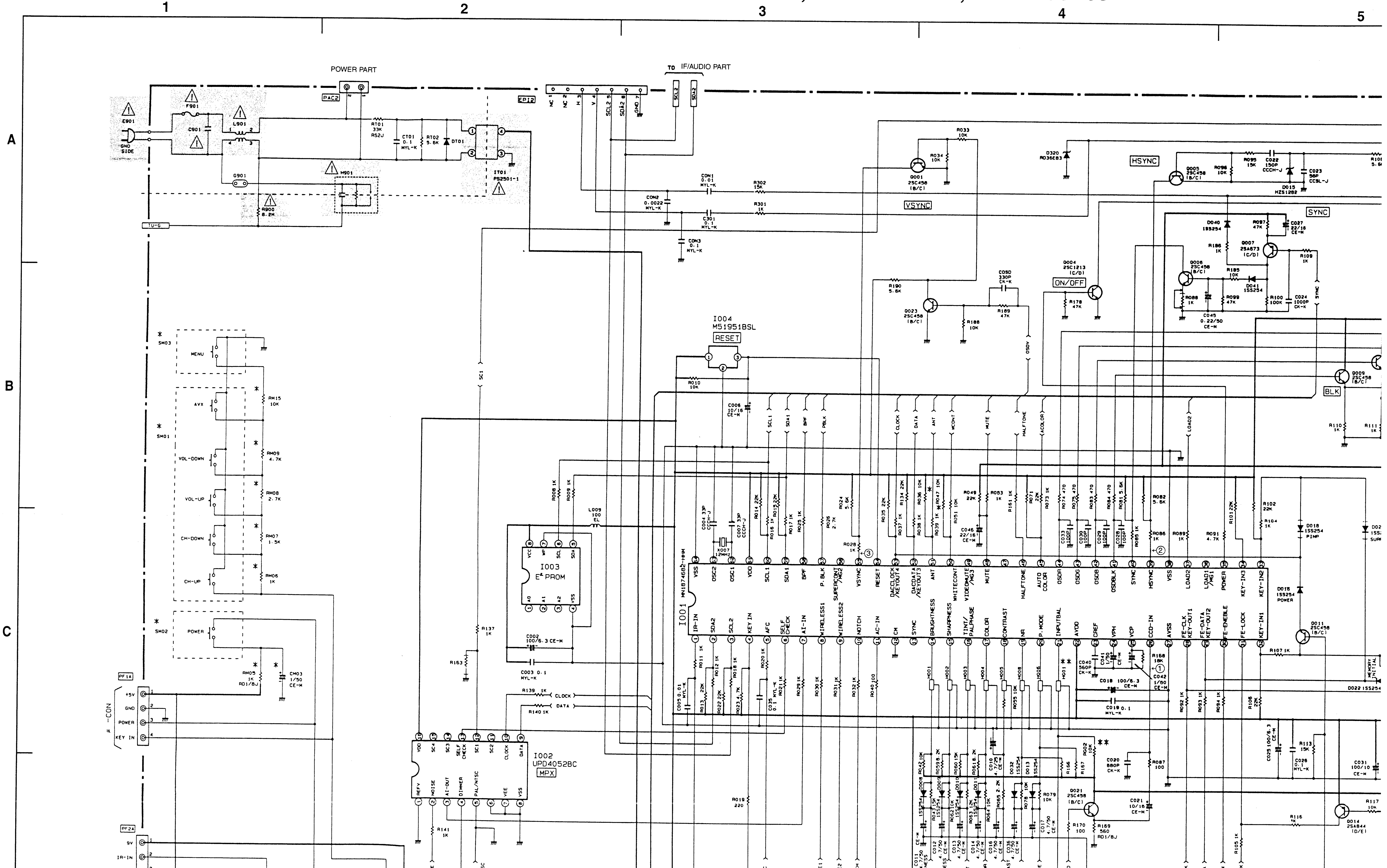
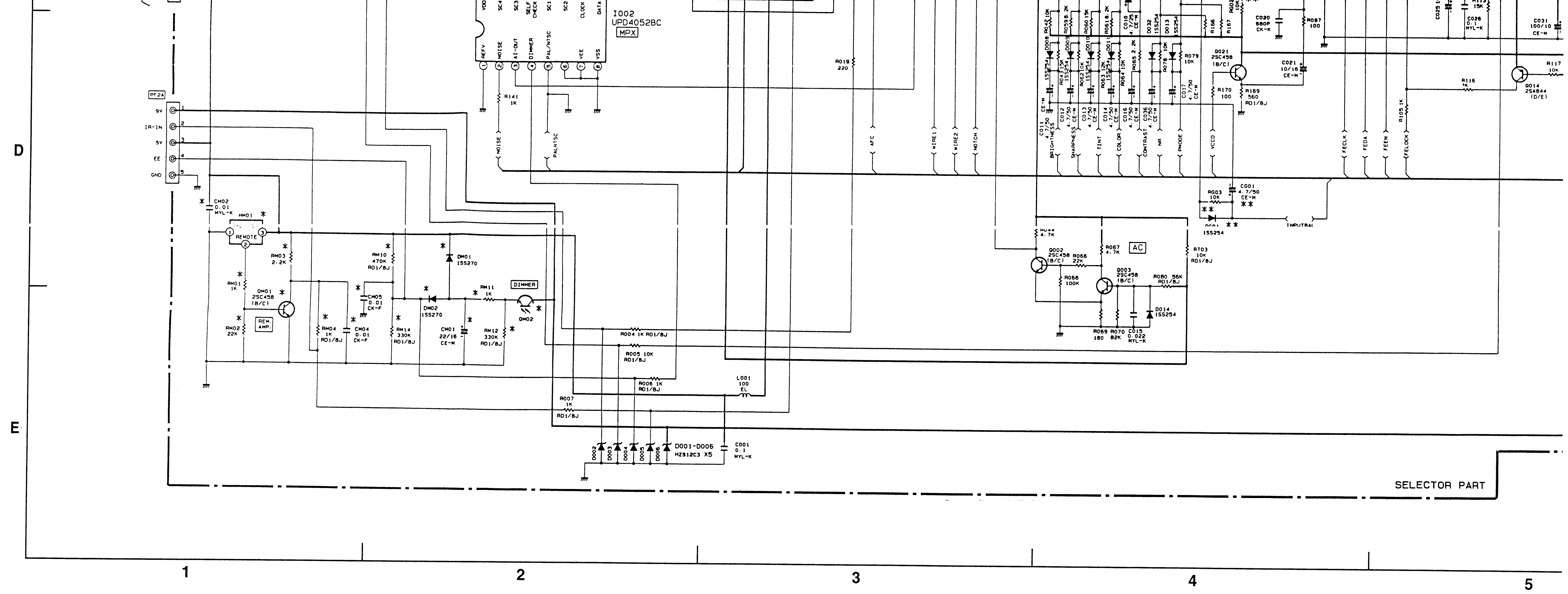


1
2
3
4
5
A
B
C
POWER PART
TO IF/AUDIO PART
PAC2
EP12
E901
GND SIDE
F901
C901
L901
G901
M901
R900 8.2M
TU-G
RT01 33K RS2J
CT01 0.1 MYL-K
RT02 5.6K
DT01
IT01 PS2501-1
NC 1
NC 2
H 3
V 4
SCL2 5
SDA2 6
GND 7
SCL2
SDA2
CON1 0.01 MYL-K
CON2 0.0022 MYL-K
CON3 0.1 MYL-K
C301 0.1 MYL-K
R302 15K
R301 1K
R033 10K
R034 10K
Q001 2SC458 (B/C)
VSYNC
D320 RD36EB3
HSYNC
Q005 2SC458 (B/C)
R096 10K
R095 15K
C022 150P CCCH-J
C023 56P CCSL-J
D015 HZS12B2
SYNC
D040 1SS254
R097 47K
C027 22/16 CE-M
R186 1K
Q007 2SA673 (C/D)
R109 1K
Q006 2SC458 (B/C)
R185 10K
D041 1SS254
R088 1K
R099 47K
R100 100K
C024 1000P CK-K
C045 0.22/50 CE-M
Q004 2SC1213 (C/D)
ON/OFF
R178 47K
C050 330P CK-K
R189 47K
R190 5.6K
Q023 2SC458 (B/C)
R188 10K
OSDV
Q009 2SC458 (B/C)
BLK
R110 1K
R111 1K
SM03
MENU
SM01
AVX
VOL-DOWN
VOL-UP
CH-DOWN
CH-UP
SM02
POWER
RM15 10K
RM09 4.7K
RM08 2.7K
RM07 1.5K
RM06 1K
RM05 1K RD1/8J
CM03 1/50 CE-M
PF1A
μ-CON
+5V
GND
POWER
KEY IN
PF2A
9V
IR-IN
SC1
I004 M51951BSL
RESET
R010 10K
C006 10/16 CE-M
R008 1K
R009 1K
L009 100 EL
I003 E² PROM
VCC
WP
SCL
SDA
A0
A1
A2
VSS
C002 100/6.3 CE-M
C003 0.1 MYL-K
R137 1K
R163
R139 1K CLOCK
R140 1K DATA
I002 UPD4052BC
MPX
VDD
SC4
SC3
SELF CHECK
SC1
SC2
CLOCK
DATA
REFV
NOISE
AI-OUT
DIMMER
PAL/NTSC
VEE
VSS
R141 1K
R019 220
I001 MN187468Z-HHM
C004 33P CCCH-J
C007 33P CCCH-J
X007 12MHZ
R014 22K
R015 22K
R016 1K
R017 1K
R025 1K
R024 5.6K
R026 2.7K
R028 1K
R035 22K
R134 22K
R037 1K
R036 10K
R038 1K
R047 10K
R039 1K
R051 10K
R049 22K
C046 22/16 CE-M
R053 1K
R161 1K
R071 22K
R073 1K
R074 470
R072 470
R083 470
R084 470
R081 5.6K
R082 5.6K
C033 100P
C030 100P
C029 100P
C028 100P
R085 1K
R086 1K
R089 1K
R091 4.7K
R101 22K
R102 22K
R104 1K
VSS
OSC2
OSC1
VDD
SCL1
SDA1
BPF
P. BLK
SUPERCONT /MG2
VSYNC
RESET
DACCLOCK /KEYOUT4
DACDATA /KEYOUT3
ANT
WHITECONT
VIDEOMUTE /MG3
MUTE
HALFTONE
AUTO COLOR
OSDR
OSDG
OSDB
OSDBLK
SYNC
HSYNC
VSS
LOAD2
LOAD1 /MG1
POWER
KEY-IN3
KEY-IN2
IR-IN
SDA2
SCL2
KEY IN
AFC
SELF CHECK
AI-IN
WIRELESS1
WIRELESS2
NOTCH
AC-IN
CM
SYNC
BRIGHTNESS
SHARPNESS
TINT/ PALPHASE
COLOR
CONTRAST
NR
P. MODE
INPUTBAL
AVDD
CREF
VPH
VCP
CCD-IN
AVSS
FE-CLK /KEY-OUT1
FE-DATA /KEY-OUT2
FE-ENEBLE
FE-LOCK
KEY-IN1
CLOCK
DATA
ANT
WCONT
MUTE
HALFTONE
ACOLOR
LOAD2
SCL1
SDA1
BPF
PBLK
C005 0.01 MYL-K
R011 1K
R013 22K
R012 1K
R022 22K
R018 1K
R023 4.7K
R020 1K
C035 0.1 MYL-K
R021 1K
R029 1K
R030 1K
R031 1K
R032 1K
R040 100
C040 560P CK-K
C041 0.01 MYL-K
C018 100/6.3 CE-M
C019 0.1 MYL-K
R158 18K
C042 1/50 CE-M
R092 1K
R093 1K
R094 1K
R106 22K
R107 1K
D018 1SS254 PINP
D016 1SS254 POWER
Q011 2SC458 (B/C)
D022 1SS254
MEMORY INITIAL
C025 100/6.3 CE-M
R113 15K
C026 0.1 MYL-K
C031 100/10 CE-M
R117 10K
R116 1K
Q014 2SA844 (D/E)
R105 1K
C020 680P CK-K
R087 100
R166
R167
R002 10K
Q021 2SC458 (B/C)
C021 10/16 CE-M
R170 100
R169 560 RD1/8J
R079 10K
R078 10K
D032 1SS254
D013 1SS254
C017 4.7/50 CE-M
C016 4.7/50 CE-M
C036 4.7/50 CE-M
C010 4.7/50 CE-M
C011 1/50 CE-M
C012 4.7/50 CE-M
C013 4.7/50 CE-M
R042 10K
R059 8.2K
R060 15K
R061 8.2K
R065 2.2K
R064 10K
R055 10K
D008 1SS254
D009 1SS254
D010 1SS254
D011 1SS254
R043 15K
R062 10K
R063 10K
M001
M002
M003
M004
M005
M008
M006
M001


I002
UPD4052BC
MPX
VDD
SC4
SC3
SELF CHECK
SC1
SC2
CLOCK
DATA
REFV
NOISE
AT-OUT
DIMMER
PAL/NTSC
VEE
VSS
R141 1K
NOISE
PALNTSC
PF2A
9V
IR-IN
5V
EE
GND
CM02 0.01 MYL-K
HM01
REMOTE
RM03 2.2K
RM01 1K
QM01 2SC458 (B/C)
REM. AMP.
RM02 22K
RM04 1K RD1/8J
CM04 0.01 CK-F
CM05 0.01 CK-F
RM10 470K RD1/8J
RM14 330K RD1/8J
DM01 1SS270
DM02 1SS270
CM01 22/16 CE-M
RM11 1K
RM12 330K RD1/8J
DIMMER
QM02
R004 1K RD1/8J
R005 10K RD1/8J
R006 1K RD1/8J
R007 1K RD1/8J
L001 100 EL
D001-D006 HZS12C3 X5
C001 0.1 MYL-K
R019 220
AFC
WIRE1
WIRE2
NOTCH
BRIGHTNESS
SHARPNESS
TINT
COLOR
CONTRAST
NR
PMODE
VCCD
Q021 2SC458 (B/C)
R170 100
R169 560 RD1/8J
C020 680P CK-K
R087 100
C021 10/16 CE-M
C001 4.7/50 CE-M
RG03 10K
INPUTRAL
1SS254
Q002 2SC458 (B/C)
R066 22K
R068 100K
R067 4.7K
AC
Q003 2SC458 (B/C)
R080 56K RD1/8J
RT03 10K RD1/8J
D014 1SS254
R069 180
R070 82K
C015 0.022 MYL-K
FECLK
FEDA
FEEN
FELOCK
R105 1K
R116
R117 10K
D014 2SA844 (D/E)
C031 100/10 CE-M
C026 0.1 MYL-K
SELECTOR PART
D
E
1
2
3
4
5

- Since this is a basic circuit diagram, th
- All DC voltage to be measured with a t

Circuit No.	Pin No.	DC Voltage Vdc
I001	1	0.1
	2	5.1
	3	5.1
	4	5.2
	5	3.2
	6	0.5
	7	2.4
	8	5.2
	9	0
	10	0
	11	2.5
	12	0
	13	2.6
	14	2.4
	15	2.4
	16	2.6
	17	2.5
	18	7.3
	19	8.9
	20	8.8
	21	0
	22	5.2
	23	0
	24	1.3
	25	1.1
	26	2

Circuit No.	Pin No.	DC Voltage Vdc
I001	27	0
	28	5
	29	5
	30	0.2
	31	0.1
	32	5.2
	33	5
	34	5
	35	5.1
	36	0
	37	5.2
	38	0
	39	4.8
	40	0.1
	41	0
	42	0
	43	0
	44	0
	45	8.1
	46	0
	47	0
	48	0
	49	0
	50	0
	51	0.7
	52	5.2

Circuit No.	Pin No.	DC Voltage Vdc
I001	53	5.2
	54	5.2
	55	5
	56	0
	57	0
	58	5.2
	59	5.1
	60	5.1
	61	5.2
	62	2.4
	63	2.2
	64	0

Circuit No.	Pin No.	DC Voltage Vdc
I002	1	0
	2	3.8
	3	2.4
	4	2.4
	5	0
	6	0
	7	0
	8	0
	9	5.2
	10	5.2
	11	0.5
	12	0.3
	13	0.5
	14	0.1
	15	0.1
	16	5.2

Circuit No.	Pin No.	DC Voltage Vdc
I004	1	5.2
	2	0
	3	5.2

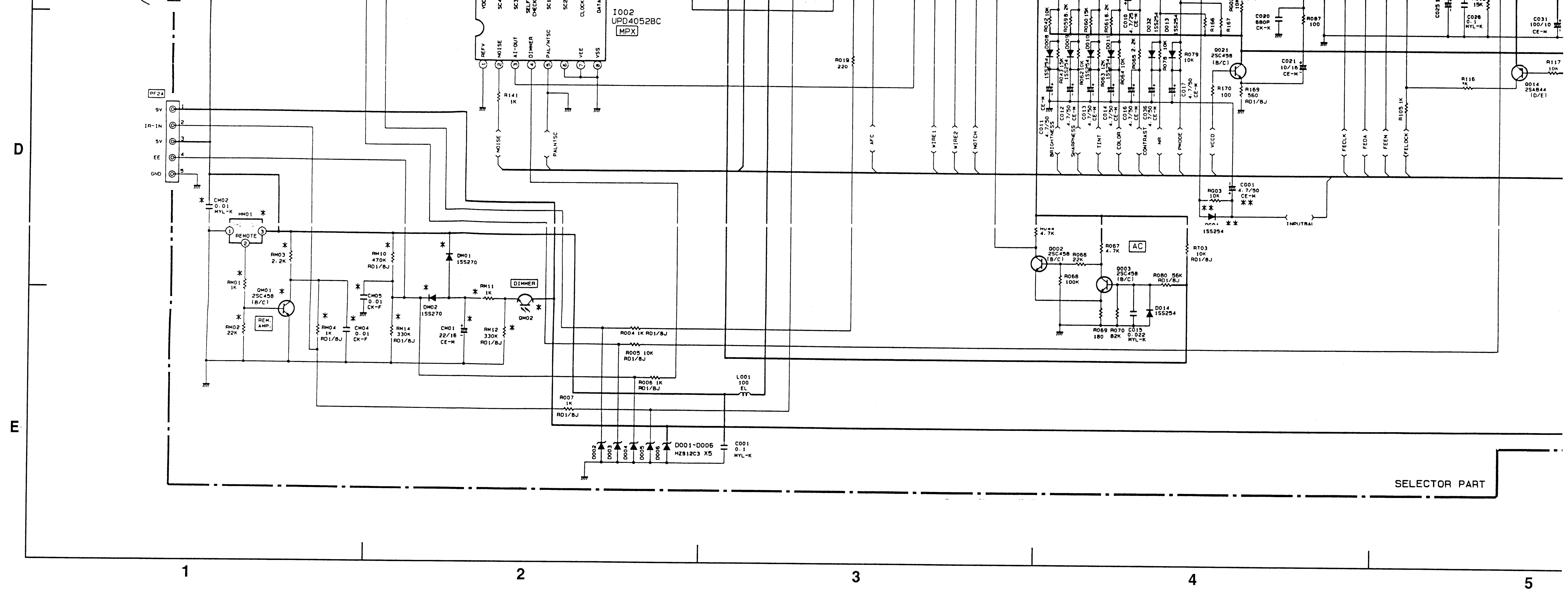
Circuit No.	Pin No.	DC Voltage Vdc
I401	1	4.1
	2	0.2
	3	4.1
	4	8.2
	5	4.1
	6	8.3
	7	4.2
	8	0
	9	4.2
	10	4.2
	11	4.2
	12	4.2
	13	4.2
	14	4.2
	15	4.2
	16	5.1
	17	5.1
	18	4.2
	19	4.2
	20	4.2
	21	4.2
	22	4.2
	23	4.2

Circuit No.	Pin No.	DC Voltage Vdc
I401	24	4.2
	25	0
	26	4.2
	27	4.2
	28	4.2
	29	4.2
	30	4.2
	31	0.2
	32	4.2

Circuit No.	Pin No.	DC Voltage Vdc
I403	1	4.5
	2	4.5
	3	4.5
	4	0
	5	4.5
	6	4.5
	7	4.5
	8	9

Circuit No.	Pin No.	DC Voltage Vdc
I404	1	4.5
	2	4.5
	3	4.5
	4	0
	5	4.5
	6	4.5
	7	4.5
	8	9

Circuit
I501


D
E
1
2
3
4
5
I002
UPD4052BC
MPX
PF24
9V
IR-IN
5V
EE
GND
REMOTE
REM. AMP.
DIMMER
AC
QM01 2SC458 (B/C)
QM02
DM01 1SS270
DM02 1SS270
CM01 22/16 CE-M
Q002 2SC458 (B/C)
Q003 2SC458 (B/C)
Q021 2SC458 (B/C)
Q014 2SA844 (D/E)
D001-D006 HZS12C3 X5
C001 0.1 MYL-K
L001 100 EL
NOISE
PAL/NTSC
AFC
WIRE1
WIRE2
NOTCH
BRIGHTNESS
SHARPNESS
TINT
COLOR
CONTRAST
NR
PMODE
VCCO
FEECLK
FEDA
FEEN
FELOCK
INPUTRAL
SELECTOR PART

- Since this is a basic circuit diagram, th
- All DC voltage to be measured with a t

Circuit No.	Pin No.	DC Voltage Vdc
I001	1	0.1
	2	5.1
	3	5.1
	4	5.2
	5	3.2
	6	0.5
	7	2.4
	8	5.2
	9	0
	10	0
	11	2.5
	12	0
	13	2.6
	14	2.4
	15	2.4
	16	2.6
	17	2.5
	18	7.3
	19	8.9
	20	8.8
	21	0
	22	5.2
	23	0
	24	1.3
	25	1.1
	26	2
I001	27	0
	28	5
	29	5
	30	0.2
	31	0.1
	32	5.2
	33	5
	34	5
	35	5.1
	36	0
	37	5.2
	38	0
	39	4.8
	40	0.1
	41	0
	42	0
	43	0
	44	0
	45	8.1
	46	0
	47	0
	48	0
	49	0
	50	0
	51	0.7
	52	5.2
I001	53	5.2
	54	5.2
	55	5
	56	0
	57	0
	58	5.2
	59	5.1
	60	5.1
	61	5.2
	62	2.4
	63	2.2
	64	0

Circuit No.	Pin No.	DC Voltage Vdc
I002	1	0
	2	3.8
	3	2.4
	4	2.4
	5	0
	6	0
	7	0
	8	0
	9	5.2
	10	5.2
	11	0.5
	12	0.3
	13	0.5
	14	0.1
	15	0.1
	16	5.2

Circuit No.	Pin No.	DC Voltage Vdc
I004	1	5.2
	2	0
	3	5.2

Circuit No.	Pin No.	DC Voltage Vdc
I401	1	4.1
	2	0.2
	3	4.1
	4	8.2
	5	4.1
	6	8.3
	7	4.2
	8	0
	9	4.2
	10	4.2
	11	4.2
	12	4.2
	13	4.2
	14	4.2
	15	4.2
	16	5.1
	17	5.1
	18	4.2
	19	4.2
	20	4.2
	21	4.2
	22	4.2
	23	4.2
I401	24	4.2
	25	0
	26	4.2
	27	4.2
	28	4.2
	29	4.2
	30	4.2
	31	0.2
	32	4.2

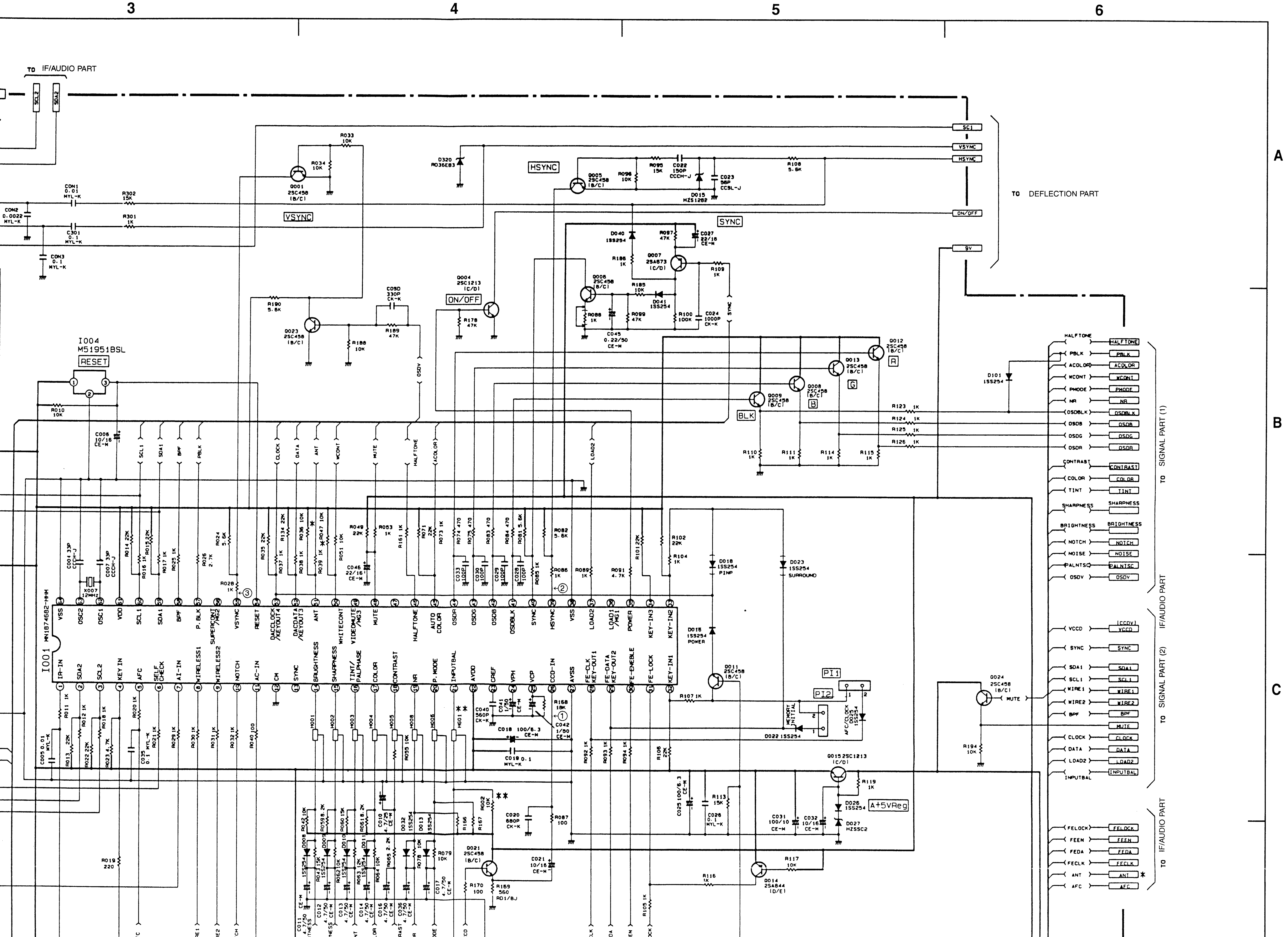
Circuit No.	Pin No.	DC Voltage Vdc
I403	1	4.5
	2	4.5
	3	4.5
	4	0
	5	4.5
	6	4.5
	7	4.5
	8	9

Circuit No.	Pin No.	DC Voltage Vdc
I404	1	4.5
	2	4.5
	3	4.5
	4	0
	5	4.5
	6	4.5
	7	4.5
	8	9

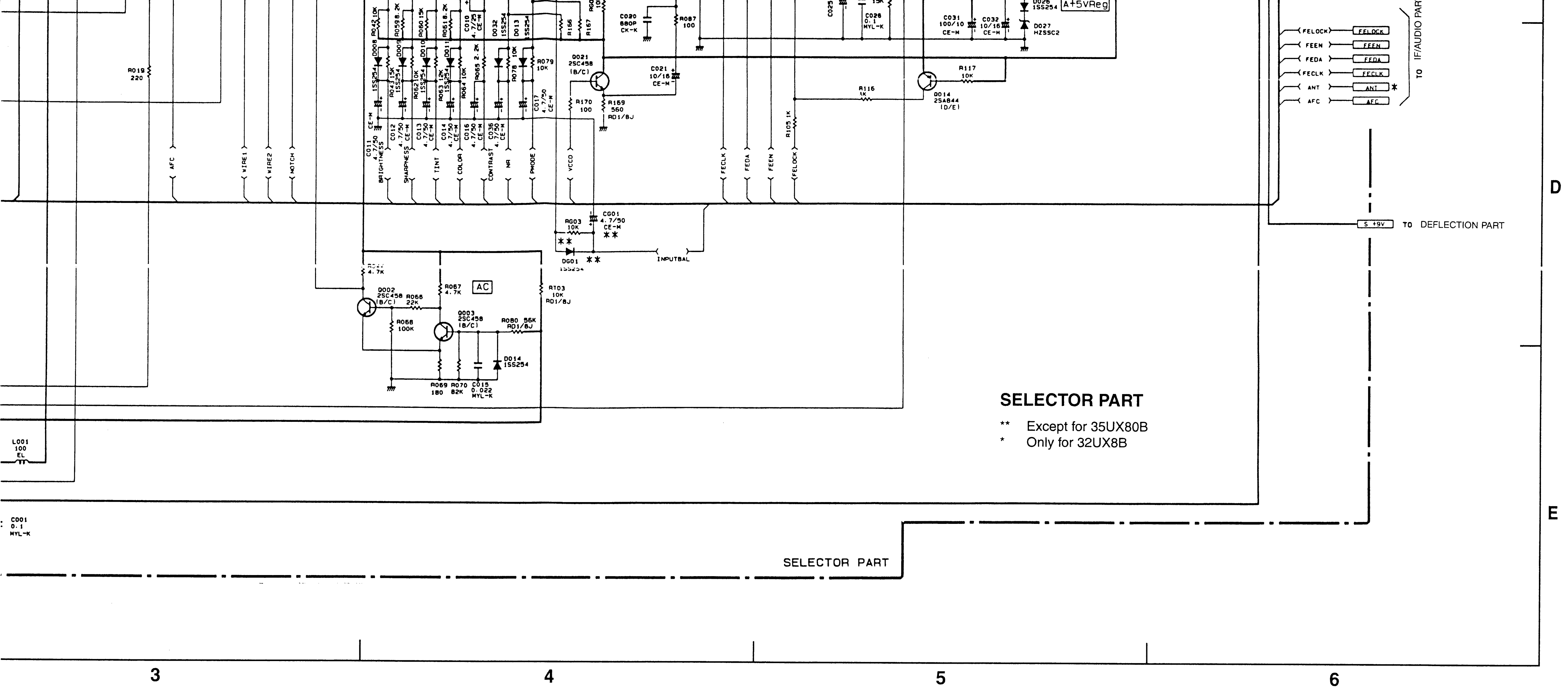
Circuit
I501

IRCUIT SCHEMATIC DIAGRAM OF 35UX80B/CZ58, 35UX70B/CZ57, 5UX70BA/CZ57P, 35TX79K/CZ56, 32UX8B/CY58

PRODUCT SAFETY NOTE: Components marked with a ⚠ and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.



3
4
5
6
A
B
C
TO IF/AUDIO PART
SCL2
SDA2
TO DEFLECTION PART
SCL
VSYNC
HSYNC
ON/OFF
9V
VSYNC
HSYNC
SYNC
ON/OFF
RESET
BLK
R
G
B
I004
M51951BSL
I001
MN187682-HHH
Q001 2SC458 (B/C)
Q003 2SC458 (B/C)
Q004 2SC1213 (C/D)
Q006 2SC458 (B/C)
Q007 2SA673 (C/D)
Q008 2SC458 (B/C)
Q009 2SC458 (B/C)
Q011 2SC458 (B/C)
Q012 2SC458 (B/C)
Q013 2SC458 (B/C)
Q014 2SA844 (D/E)
Q015 2SC1213 (C/D)
Q021 2SC458 (B/C)
Q023 2SC458 (B/C)
Q024 2SC458 (B/C)
D018 1SS254 PINP
D023 1SS254 SURROUND
D016 1SS254 POWER
D022 1SS254
D026 1SS254
D027 HZ5SC2
D015 HZS12B2
D101 1SS254
A+5VReg
PI1
PI2
MEMORY INITIAL
AFC/CLOCK
X007 12MHz
VSS
OSC2
OSC1
VDD
SCL1
SDA1
BPF
P. BLK
SUPERCONT /MG2
VSYNC
RESET
DACCLOCK /KEYOUT4
DACDATA /KEYOUT3
ANT
WHITECONT
VIDEOMUTE /MG3
MUTE
HALFTONE
AUTO COLOR
OSDR
OSDG
OSDB
OSDBLK
SYNC
HSYNC
VSS
LOAD2
LOAD1 /MS1
POWER
KEY-IN3
KEY-IN2
IR-IN
SDA2
SCL2
KEY IN
AFC
SELF CHECK
AI-IN
WIRELESS1
WIRELESS2
NOTCH
AC-IN
CH
SYNC
BRIGHTNESS
SHARPNESS
TINT/ PALPHASE
COLOR
CONTRAST
NR
P. MODE
INPUTBAL
AVDD
CREF
VPH
VCP
CCO-IN
AVSS
FE-CLK KEY-OUT1
FE-DATA KEY-OUT2
FE-ENEBLE
FE-LOCK
KEY-IN1
TO SIGNAL PART (1)
HALFTONE
PBLK
ACOLOR
WCONT
PMODE
NR
OSDBLK
OSDB
OSDG
OSDR
CONTRAST
COLOR
TINT
SHARPNESS
BRIGHTNESS
NOTCH
NOISE
PALNTSC
OSDV
TO IF/AUDIO PART
VCCD
TO SIGNAL PART (2)
SYNC
SDA1
SCL1
WIRE1
WIRE2
BPF
MUTE
CLOCK
DATA
LOAD2
INPUTBAL
TO IF/AUDIO PART
FELOCK
FEEN
FEDA
FECLK
ANT
AFC


A+5VReg
FELOCK
FEEN
FEDA
FECLK
ANT
AFC
TO IF/AUDIO PAR
S +9V
TO DEFLECTION PART
BRIGHTNESS
SHARPNESS
TINT
COLOR
CONTRAST
NR
PMODE
VCCO
AFC
WIPE1
WIPE2
NOTCH
FECLK
FEDA
FEEN
FELOCK
INPUTBAL
AC
Q002 2SC458 (B/C)
Q003 2SC458 (B/C)
Q021 2SC458 (B/C)
Q014 2SA844 (D/E)
D014 1SS254
D027 HZ5SC2
R019 220
L001 100 EL
C001 0.1 MYL-K
R067 4.7K
R066 22K
R068 100K
R080 56K RD1/8J
R069 180
R070 82K
C015 0.022 MYL-K
R103 10K RD1/8J
R603 10K
C601 4.7/50 CE-M
D601 1SS254
R170 100
R159 560 RD1/8J
C020 680P CK-K
R087 100
C021 10/16 CE-M
C031 100/10 CE-M
C032 10/16 CE-M
C026 0.1 MYL-K
R116 1K
R117 10K
R105 1K
R079 10K
SELECTOR PART
D
E
3
4
5
6

SELECTOR PART

** Except for 35UX80B
* Only for 32UX8B

- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.
- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.

in No.	DC Voltage Vdc
53	5.2
54	5.2
55	5
56	0
57	0
58	5.2
59	5.1
60	5.1
61	5.2
62	2.4
63	2.2
64	0

Circuit No.	Pin No.	DC Voltage Vdc
I002	1	0
	2	3.8
	3	2.4
	4	2.4
	5	0
	6	0
	7	0
	8	0
	9	5.2
	10	5.2
	11	0.5
	12	0.3
	13	0.5
	14	0.1
	15	0.1
	16	5.2

Circuit No.	Pin No.	DC Voltage Vdc
I004	1	5.2
	2	0
	3	5.2

Circuit No.	Pin No.	DC Voltage Vdc
I401	1	4.1
	2	0.2
	3	4.1
	4	8.2
	5	4.1
	6	8.3
	7	4.2
	8	0
	9	4.2
	10	4.2
	11	4.2
	12	4.2
	13	4.2
	14	4.2
	15	4.2
	16	5.1
	17	5.1
	18	4.2
	19	4.2
	20	4.2
	21	4.2
	22	4.2
	23	4.2

Circuit No.	Pin No.	DC Voltage Vdc
I401	24	4.2
	25	0
	26	4.2
	27	4.2
	28	4.2
	29	4.2
	30	4.2
	31	0.2
	32	4.2

Circuit No.	Pin No.	DC Voltage Vdc
I403	1	4.5
	2	4.5
	3	4.5
	4	0
	5	4.5
	6	4.5
	7	4.5
	8	9

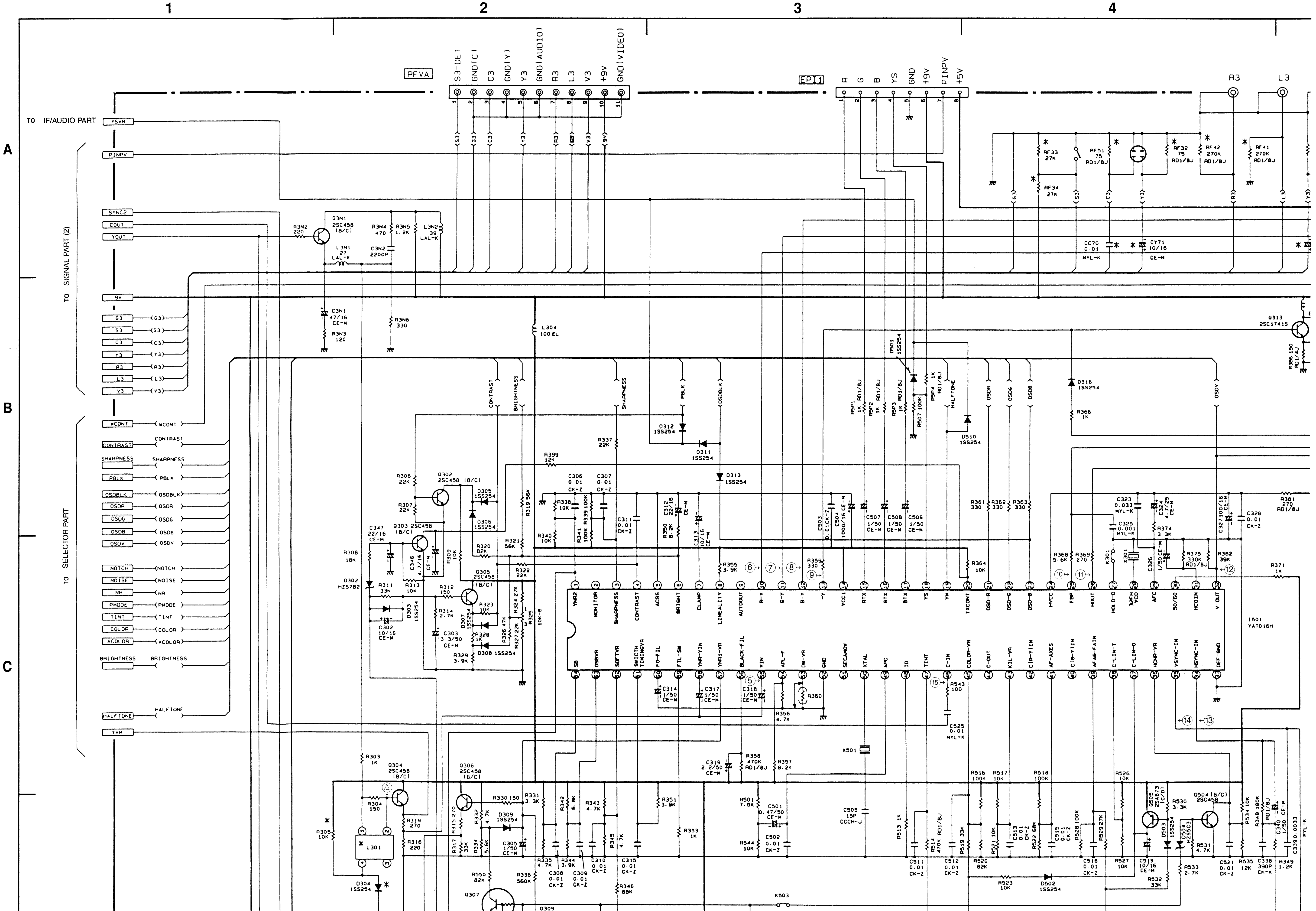
Circuit No.	Pin No.	DC Voltage Vdc
I404	1	4.5
	2	4.5
	3	4.5
	4	0
	5	4.5
	6	4.5
	7	4.5
	8	9

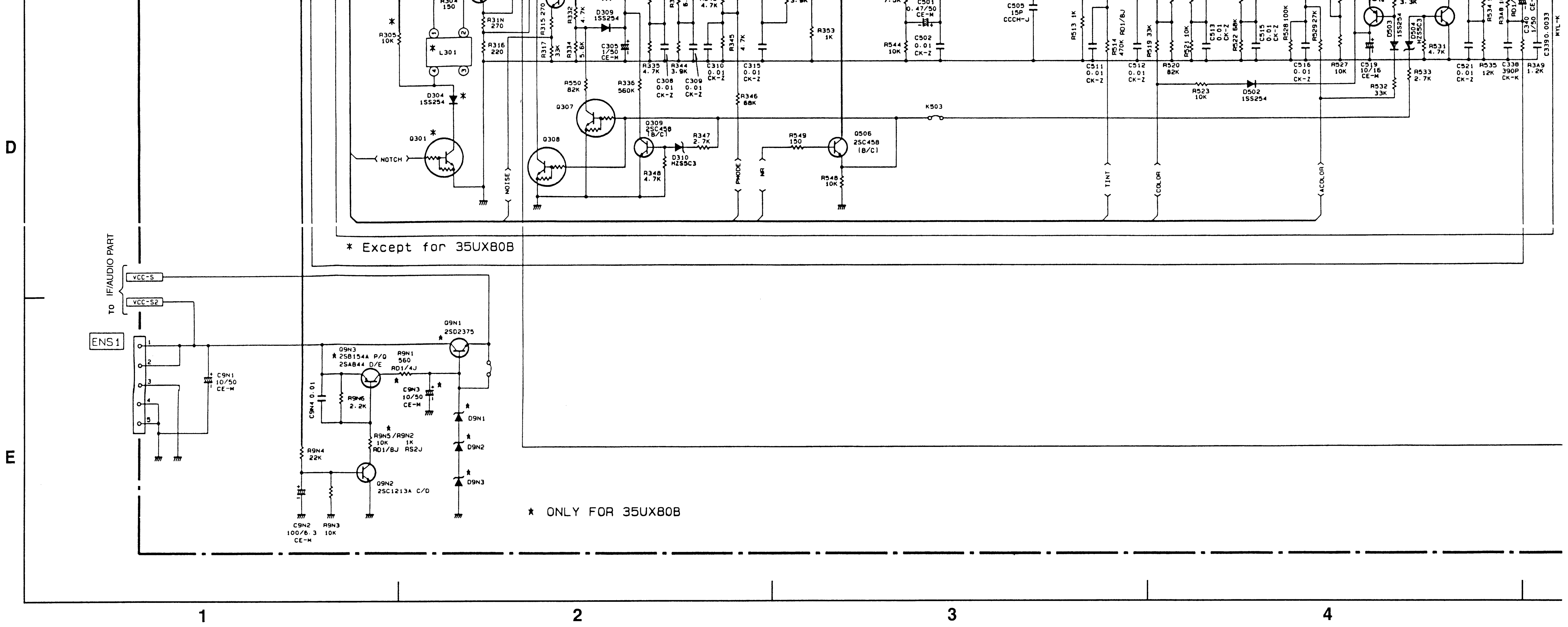
Circuit No.	Pin No.	DC Voltage Vdc
I501	1	0
	2	0
	3	4.2
	4	7.1
	5	0
	6	4.6
	7	6.9
	8	8.9
	9	0.1
	10	5.1
	11	5.2
	12	5.3
	13	4.6
	14	9.1
	15	3.1
	16	3.1
	17	3.1
	18	0
	19	0
	20	4.9
	21	0
	22	0
	23	0
	24	7.8
	25	1.3

Circuit No.	Pin No.	DC Voltage Vdc
I501	26	0.8
	27	0
	28	5
	29	5.5
	30	8.8
	31	7.6
	32	4.5
	33	0
	34	7
	35	6.5
	36	0
	37	4.2
	38	4
	39	6.5
	40	1.3
	41	3.6
	42	1.3
	43	4.2
	44	6.5
	45	4.6
	46	3.2
	47	4.5
	48	0.7
	49	5.9
	50	5.5

PRODU
any of
through

CIRCUIT SCHEMATIC DIAGRAM OF 35UX80B/CZ58, 35UX70B/CZ57, 35UX70BA/CZ57P, 35TX79K/CZ56, 32UX8B/CY58


1
2
3
4
A
B
C
TO IF/AUDIO PART
YSVM
PINPV
TO SIGNAL PART (2)
SYNC2
COUT
YOUT
9V
G3
S3
C3
Y3
R3
L3
V3
TO SELECTOR PART
WCONT
CONTRAST
SHARPNESS
PBLK
OSDBLK
OSDR
OSDG
OSDB
OSDV
NOTCH
NOISE
NR
PMODE
TINT
COLOR
ACOLOR
BRIGHTNESS
HALFTONE
YVM
PFVA
S3-DET
GND(C)
C3
GND(Y)
Y3
GND(AUDIO)
R3
L3
V3
+9V
GND(VIDEO)
EPI1
R
G
B
YS
GND
+9V
PINPV
+5V
R3
L3
Q3N1 2SC458 (B/C)
R3N2 220
R3N4 470
R3N5 1.2K
L3N2 39 LAL-K
L3N1 27 LAL-K
C3N2 2200P
C3N1 47/16 CE-M
R3N3 120
R3N6 330
L304 100 EL
Q302 2SC458 (B/C)
Q303 2SC458 (B/C)
Q305 2SC458 (B/C)
Q304 2SC458 (B/C)
Q306 2SC458 (B/C)
Q307
Q313 2SC1741S
Q504 (B/C) 2SC458
Q505 2SA673 (C/D)
D302 HZ5B2
D304 1SS254
D305 1SS254
D306 1SS254
D307 1SS254
D308 1SS254
D309 1SS254
D311 1SS254
D312 1SS254
D313 1SS254
D316 1SS254
D501 1SS254
D502 1SS254
D510 1SS254
L301
X501
X301
K301
K503
I501 YA1016H
YNR2
MONITOR
SHARPNESS
CONTRAST
ACSS
BRIGHT
CLAMP
LINEALITY
AUTOOUT
R-Y
G-Y
B-Y
-Y
VCC1
RTX
GTX
BTX
YS
YM
TXCONT
OSD-R
OSD-G
OSD-B
HVCC
FBP
HOUT
HOLD-O
32FH VCO
AFC
50/60
HCOIN
V-OUT
SB
DSBYR
SOFTYR
SWITCH TIMINGYR
FO-FIL
FIL-SW
YNR-YIN
YNR1-YR
BLACK-FIL
YIN
APL-F
DW-YR
GND
SECAMON
XTAL
APC
ID
TINT
C-IN
COLOR-YR
C-OUT
KIL-YR
CIR-YIIN
AF-AXES
CIB-YIIN
AFAG-FAIN
C-LIM-T
C-LIM-O
MONR-YR
VSYNC-IN
HSYNC-IN
DEF-GND
RF33 27K
RF34 27K
RF51 75 RD1/8J
RF32 75 RD1/8J
RF42 270K RD1/8J
RF41 270K RD1/8J
CC70 0.01 MYL-K
CY71 10/16 CE-M
C323 0.033 MYL-K
C325 0.001 MYL-K
C324 4.7/25 CE-M
C327 100/16 CE-M
C326 0.01 CK-Z
R381 270 RD1/8J
R371 1K
R366 1K
R361 330
R362 330
R363 330
R364 10K
R368 5.6K
R369 270
R374 3.3K
R375 330K RD1/8J
R382 39K
C306 0.01 CK-Z
C307 0.01 CK-Z
R338 10K
R339 100K
R340 10K
R341 100K
C311 0.01 CK-Z
C312 22/16 CE-M
C313 10/16 CE-M
R350 8.2K
C503 0.01 CK-Z
C504 1000/16 CE-M
C507 1/50 CE-M
C508 1/50 CE-M
C509 1/50 CE-M
R355 3.9K
R359 330
R5P1 1K RD1/8J
R5P2 1K RD1/8J
R5P3 1K RD1/8J
R5P4 1K RD1/8J
R507 100K
R337 22K
R399 12K
R306 22K
R307 22K
R308 18K
C347 22/16 CE-M
C346 4.7/16 CE-M
R309 10K
R319 56K
R320 82K
R321 56K
R322 22K
R311 33K
R313 10K
R312 150
R314 2.7K
R323 10K
R324 27K
R325 10K-B
R326 47K
R327 22K
R328 1K
R329 3.9K
C302 10/16 CE-M
C303 3.3/50 CE-M
C314 1/50 CE-M
C317 1/50 CE-M
C318 1/50 CE-M
R356 4.7K
R360
R543 100
C525 0.01 MYL-K
C319 2.2/50 CE-M
R358 470K RD1/8J
R357 8.2K
C505 15P CCCH-J
R303 1K
R304 150
R305 10K
R31N 270
R316 220
R315 270
R317 33K
R332 4.7K
R334 5.6K
R330 150
R331 3.3K
C305 1/50 CE-M
R342 6.8K
R343 4.7K
R345 4.7K
R335 4.7K
R344 3.9K
C308 0.01 CK-Z
C309 0.01 CK-Z
C310 0.01 CK-Z
C315 0.01 CK-Z
R336 560K
R346 68K
R550 82K
R351 3.9K
R353 1K
R501 7.5K
C501 0.47/50 CE-M
R544 10K
C502 0.01 CK-Z
R513 1K
R514 470K RD1/8J
R519 33K
C511 0.01 CK-Z
C512 0.01 CK-Z
R516 100K
R517 10K
R518 100K
R520 82K
R521 10K
C513 0.01 CK-Z
R522 68K
C515 0.01 CK-Z
R528 100K
R529 27K
C516 0.01 CK-Z
R523 10K
R526 10K
R527 10K
C519 10/16 CE-M
D503 1SS254
D504 HZ5B3
R530 3.3K
R531 4.7K
R532 33K
R533 2.7K
R534 10K
R535 12K
R536 180K RD1/8J
C521 0.01 CK-Z
C338 390P CK-K
C340 1/50 CE-M
C339 0.0033 MYL-K
R349 1.2K
R3B6 150 RD1/4J
Q309


D
E
1
2
3
4
* Except for 35UX80B
★ ONLY FOR 35UX80B
TO IF/AUDIO PART
VCC-S
VCC-S2
ENS1
C9N1 10/50 CE-M
Q9N1 2SD2375
Q9N3 ★ 2SB154A P/Q 2SA844 D/E
R9N1 560 RD1/4J
C9N3 10/50 CE-M
C9N4 0.01
R9N6 2.2K
R9N5 / R9N2 10K 1K RD1/8J RS2J
R9N4 22K
Q9N2 2SC1213A C/D
C9N2 100/6.3 CE-M
R9N3 10K
D9N1
D9N2
D9N3
NOTCH
NOISE
PMODE
NR
TINT
COLOR
ACOLOR
Q301
Q307
Q308
Q309 2SC458 (B/C)
Q506 2SC458 (B/C)
L301
K503

Circuit No.	Pin No.	DC Voltage Vdc
I501	51	1.4
	52	0
	53	0
	54	3.3
	55	3.8
	56	6.1
	57	4.4
	58	3.8
	59	0
	60	4.3
	61	4.1
	62	6
	63	3.7
	64	5.5

Circuit No.	Pin No.	DC Voltage Vdc
I620	1	8.26
	2	4.47
	3	4.15
	4	4.2
	5	0
	6	4
	7	4
	8	26.9
	9	1.9
	10	1.41
	11	0
	12	15.47
	13	27

Circuit No.	Pin No.	DC Voltage Vdc
I6H0	1	5.6
	2	5.6
	3	5.6
	4	0
	5	6
	6	6
	7	6
	8	11.2

Circuit No.	Pin No.	DC Voltage Vdc
I701	1	12
	2	9
	3	0.5

Circuit No.	Pin No.	DC Voltage Vdc
I702	1	12
	2	0
	3	21.4

Circuit No.	Pin No.	DC Voltage Vdc
I7H0	1	11.2
	2	10
	3	0
	4	3.5
	5	35.8

Circuit No.	Pin No.	DC Voltage Vdc
I901	1	0.5
	2	1.13
	3	2
	4	0
	5	4.3
	6	0
	7	1.75
	8	0.36

Circuit No.	Pin No.	DC Voltage Vdc
I902	1	21.6
	2	21.2
	3	0
	4	0
	5	109.4
	6	0

Circuit No.	Pin No.	DC Voltage Vdc
I931	1	12.57
	2	0
	3	10

Circuit No.	Pin No.	DC Voltage Vdc
I961	1	2
	2	1.18
	3	0
	4	0
	5	1.82
	6	17
	7	2
	8	3.6

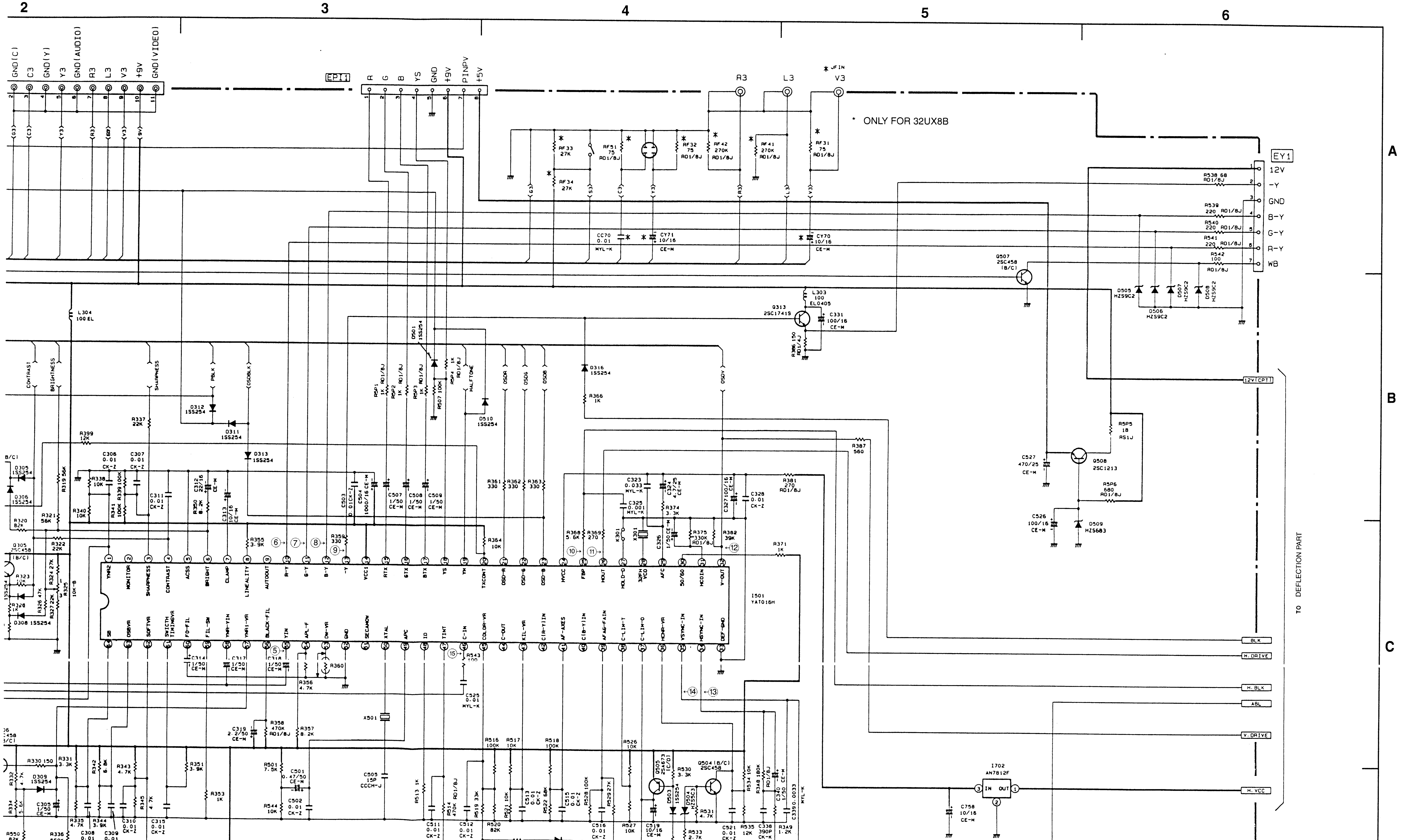
Circuit No.	Pin No.	DC Voltage Vdc
I962	1	0
	2	0
	3	3.58
	4	17

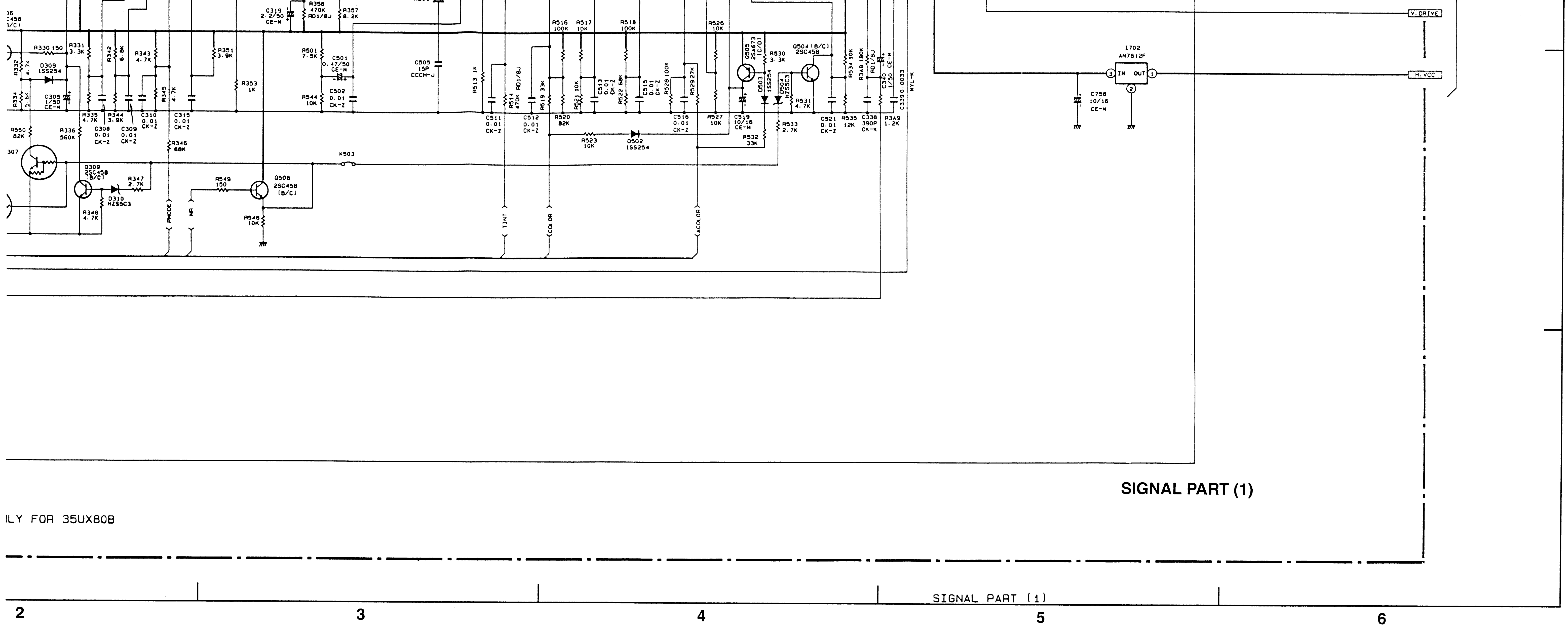
Circuit No.	Pin No.	DC Voltage Vdc
IA01	1	8.9
	2	4.5
	3	4.5
	4	4.5
	5	4.5
	6	4.5
	7	4.5
	8	4.5
	9	4.5
	10	0
	11	2.6
	12	4.5
	13	4.5
	14	0
	15	4.9
	16	4
	17	0
	18	4.54
	19	4.54
	20	4.64
	21	1.24
	22	5
	23	4.9
	24	4.5
	25	4.5
	26	4.5
	27	4.5
	28	4.5

Circuit No.	Pin No.	DC
IA02	1	
	2	
	3	
	4	
	5	
	6	
	7	
	8	
	9	
	10	
	11	
	12	
	13	
	14	
	15	
	16	

CIRCUIT SCHEMATIC DIAGRAM OF 35UX80B/CZ58, 35UX70B/CZ57, 35UX70BA/CZ57P, 35TX79K/CZ56, 32UX8B/CY58

PRODUCT SAFETY NOTE: Components marked with a ⚠ and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.


2
3
4
5
6
A
B
C
GND(C)
C3
GND(Y)
Y3
GND(AUDIO)
R3
L3
V3
+9V
GND(VIDEO)
EP11
R
G
B
YS
GND
+9V
PINPV
+5V
R3
L3
V3
* ONLY FOR 32UX8B
EY1
12V
-Y
GND
B-Y
G-Y
R-Y
WB
RF33 27K
RF34 27K
RF51 75 RD1/8J
RF32 75 RD1/8J
RF42 270K RD1/8J
RF41 270K RD1/8J
RF31 75 RD1/8J
CC70 0.01 MYL-K
CY71 10/16 CE-M
CY70 10/16 CE-M
R538 68 RD1/8J
R539 220 RD1/8J
R540 220 RD1/8J
R541 220 RD1/8J
R542 100 RD1/8J
Q507 2SC458 (B/C)
D505 HZS9C2
D506 HZS9C2
D507 HZS9C2
D508 HZS9C2
L303 100 EL0405
Q313 2SC1741S
C331 100/16 CE-M
R366 150 RD1/4J
L304 100 EL
D501 1SS254
D316 1SS254
R366 1K
D312 1SS254
D311 1SS254
D313 1SS254
D510 1SS254
CONTRAST
BRIGHTNESS
SHARPNESS
PBLK
OSDBLK
HALFTONE
OSDR
OSDG
OSDB
OSDV
R337 22K
R399 12K
R387 560
R5P5 18 RS1J
R5P6 680 RD1/8J
C527 470/25 CE-M
Q508 2SC1213
C526 100/16 CE-M
D509 HZS683
12V(CPT)
I501 YAT016H
YNR2
MONITOR
SHARPNESS
CONTRAST
ACSS
BRIGHT
CLAMP
LINEALITY
AUTOOUT
R-Y
G-Y
B-Y
-Y
VCC1
RTX
GTX
BTX
YS
YM
TXCONT
OSD-R
OSD-G
OSD-B
HVCC
FBP
HOUT
HOLD-D
32FH VCO
AFC
50/60
HCOIN
V-OUT
SB
OSDYR
SOFTYR
SWITCH TIMINGYR
FO-FIL
FIL-SW
YNR-YIN
YNR1-YR
BLACK-FIL
YIN
APL-F
DM-YR
GND
SECAMON
XTAL
APC
ID
TINT
C-IN
COLOR-YR
C-OUT
KIL-YR
CIR-YIN
AF-AXES
CIB-YIN
AFAG-FAIN
C-LIM-T
C-LIM-O
HCNR-YR
VSYNC-IN
HSYNC-IN
DEF-GND
R361 330
R362 330
R363 330
R364 10K
R368 5.6K
R369 270
R382 39K
R371 1K
R381 270 RD1/8J
C323 0.033 MYL-K
C324 4.7/25 CE-M
C325 0.001 MYL-K
R374 3.3K
R375 330K RD1/8J
C327 100/16 CE-M
C328 0.01 CK-Z
X301
C326 1/50 CE-M
R355 3.9K
R359 330
C306 0.01 CK-Z
C307 0.01 CK-Z
R338 10K
R339 100K
C311 0.01 CK-Z
C312 22/16 CE-M
R350 8.2K
C313 10/16 CE-M
R340 10K
R341 100K
C503 0.01CK-Z
C504 1000/16 CE-M
C507 1/50 CE-M
C508 1/50 CE-M
C509 1/50 CE-M
R5P1 1K RD1/8J
R5P2 1K RD1/8J
R5P3 1K RD1/8J
R5P4 1K RD1/8J
R507 100K
R319 56K
R320 82K
R321 56K
R322 22K
D305 1SS254
D306 1SS254
Q305 2SC458 (B/C)
R323 1.5K
R324 27K
R325 10K-B
R326 47K
R327 22K
R328 1K
D308 1SS254
C314 1/50 CE-M
C317 1/50 CE-M
C318 1/50 CE-M
R356 4.7K
R360
R543 100
C525 0.01 MYL-K
X501
C319 2.2/50 CE-M
R358 470K RD1/8J
R357 8.2K
R330 150
R331 3.3K
R332 4.7K
D309 1SS254
R342 6.8K
R343 4.7K
R345 4.7K
R351 3.9K
R353 1K
R334 5.6K
C305 1/50 CE-M
R335 4.7K
R344 3.9K
C308 0.01
C309 0.01 CK-Z
C310 0.01 CK-Z
C315 0.01 CK-Z
R550
R336
R501 7.5K
C501 0.47/50 CE-M
C502 0.01 CK-Z
R544 10K
C505 15P CCCH-J
R516 100K
R517 10K
R518 100K
R526 10K
R513 1K
R514 470K RD1/8J
R519 33K
R521 10K
C513 0.01 CK-Z
R522 68K
C515 0.01 CK-Z
R528 100K
R529 27K
C511 0.01 CK-Z
C512 0.01 CK-Z
R520 82K
C516 0.01 CK-Z
R527 10K
Q505 2SA673 (C/D)
Q504 (B/C) 2SC458
R530 3.3K
D503 1SS254
D504 HZ5C3
R531 4.7K
C519 10/16 CE-M
R533 2.7K
R534 10K
R348 180K
R549 RD1/8J
C340 1/50 CE-M
C339 0.0033 MYL-K
C521 0.01 CK-Z
R535 12K
C338 390P CK-Z
R3A9 1.2K
I702 AN7812F
IN
OUT
C758 10/16 CE-M
BLK
H.DRIVE
H.BLK
ABL
V.DRIVE
H.VCC
TO DEFLECTION PART
⑤
⑥
⑦
⑧
⑨
⑩
⑪
⑫
⑬
⑭
⑮


R330 150
R331 3.3K
R332 4.7K
R334 5.6K
D309 1SS254
C305 1/50 CE-M
R342 6.8K
R343 4.7K
R345 4.7K
R351 3.9K
R353 1K
R335 4.7K
R344 3.9K
C310 0.01 CK-Z
C315 0.01 CK-Z
C308 0.01 CK-Z
C309 0.01 CK-Z
R346 68K
R550 82K
R336 560K
Q309 2SC458 (B/C)
R347 2.7K
D310 HZS5C3
R348 4.7K
PHODE
R549 150
Q506 2SC458 (B/C)
R548 10K
C319 2.2/50 CE-M
R358 470K
R357 8.2K
R501 7.5K
C501 0.47/50 CE-M
R544 10K
C502 0.01 CK-Z
C505 15P CCCH-J
K503
R513 1K
R516 100K
R517 10K
R518 100K
R514 470K RD1/8J
R519 33K
R521 10K
C513 0.01 CK-Z
R522 68K
C515 0.01 CK-Z
R528 100K
R529 27K
C511 0.01 CK-Z
C512 0.01 CK-Z
R520 82K
R523 10K
D502 1SS254
C516 0.01 CK-Z
TINT
COLOR
ACOLOR
R526 10K
Q505 2SA673 (C/D)
R530 3.3K
Q504 (B/C) 2SC458
D503 1SS254
D504 HZS5C3
R531 4.7K
R527 10K
C519 10/16 CE-M
R532 33K
R533 2.7K
R534 10K
R348 180K RD1/8J
C340 1/50 CE-M
C339 0.0033 MYL-K
C521 0.01 CK-Z
R535 12K
C338 390P CK-K
R349 1.2K
V.DRIVE
H.VCC
I702 AN7812F
IN
OUT
C758 10/16 CE-M
ILY FOR 35UX80B
SIGNAL PART (1)
2
3
4
5
6
D
E

SIGNAL PART (1)

- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.
- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.

DC Voltage Vdc
8.26
4.47
4.15
4.2
0
4
4
26.9
1.9
1.41
0
15.47
27

DC Voltage Vdc
5.6
5.6
5.6
0
6
6
6
11.2

Circuit No.	Pin No.	DC Voltage Vdc
I701	1	12
	2	9
	3	0.5

Circuit No.	Pin No.	DC Voltage Vdc
I702	1	12
	2	0
	3	21.4

Circuit No.	Pin No.	DC Voltage Vdc
I7H0	1	11.2
	2	10
	3	0
	4	3.5
	5	35.8

Circuit No.	Pin No.	DC Voltage Vdc
I901	1	0.5
	2	1.13
	3	2
	4	0
	5	4.3
	6	0
	7	1.75
	8	0.36

Circuit No.	Pin No.	DC Voltage Vdc
I902	1	21.6
	2	21.2
	3	0
	4	0
	5	109.4
	6	0

Circuit No.	Pin No.	DC Voltage Vdc
I931	1	12.57
	2	0
	3	10

Circuit No.	Pin No.	DC Voltage Vdc
I961	1	2
	2	1.18
	3	0
	4	0
	5	1.82
	6	17
	7	2
	8	3.6

Circuit No.	Pin No.	DC Voltage Vdc
I962	1	0
	2	0
	3	3.58
	4	17

Circuit No.	Pin No.	DC Voltage Vdc
IA01	1	8.9
	2	4.5
	3	4.5
	4	4.5
	5	4.5
	6	4.5
	7	4.5
	8	4.5
	9	4.5
	10	0
	11	2.6
	12	4.5
	13	4.5
	14	0
	15	4.9
	16	4
	17	0
	18	4.54
	19	4.54
	20	4.64
	21	1.24
	22	5
	23	4.9
	24	4.5
	25	4.5
	26	4.5
	27	4.5
	28	4.5

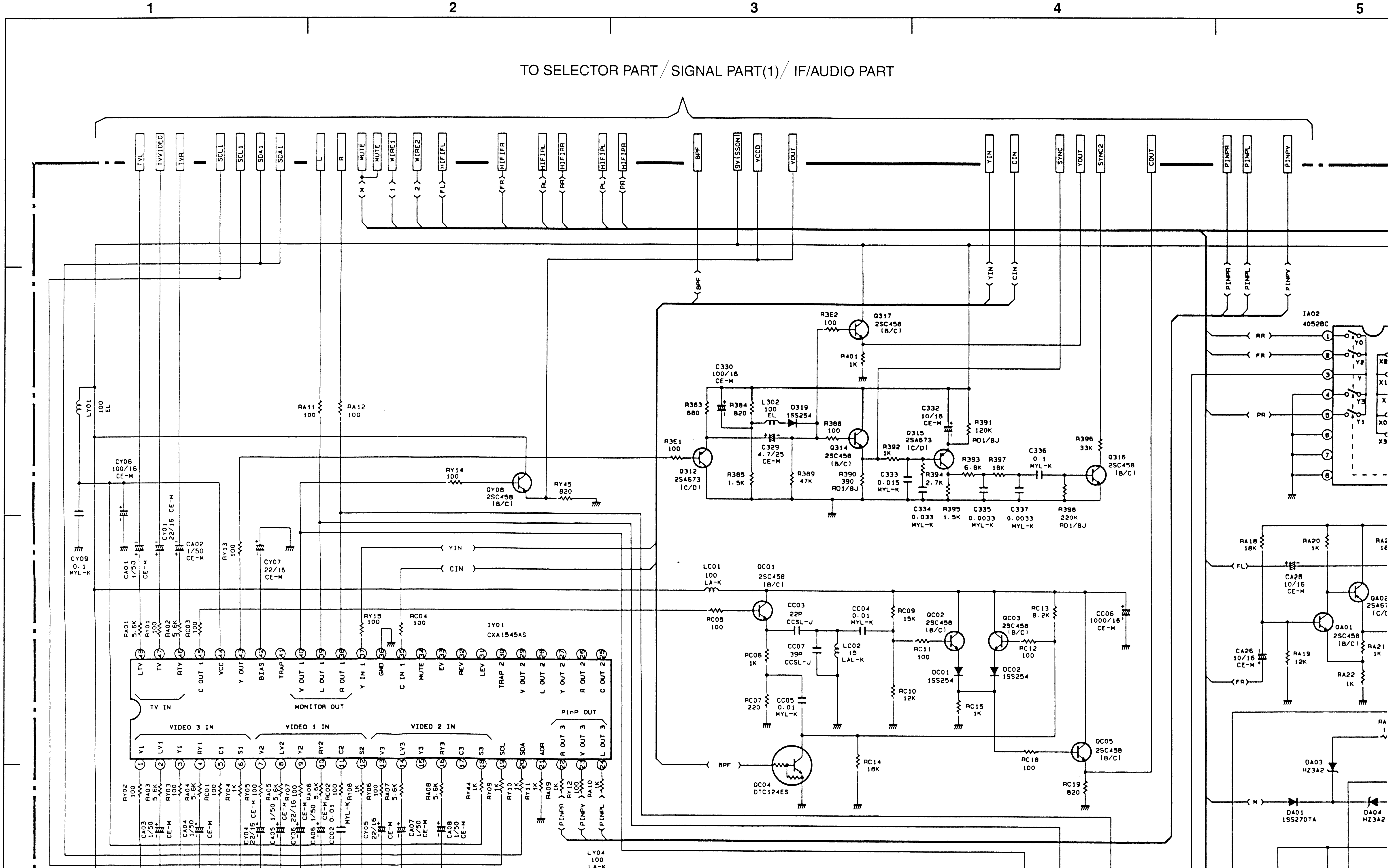
Circuit No.	Pin No.	DC Voltage Vdc
IA02	1	4.2
	2	4.2
	3	4.2
	4	0
	5	4.2
	6	0
	7	0
	8	0
	9	9
	10	0
	11	0
	12	4.2
	13	4.2
	14	4.2
	15	4.2
	16	9

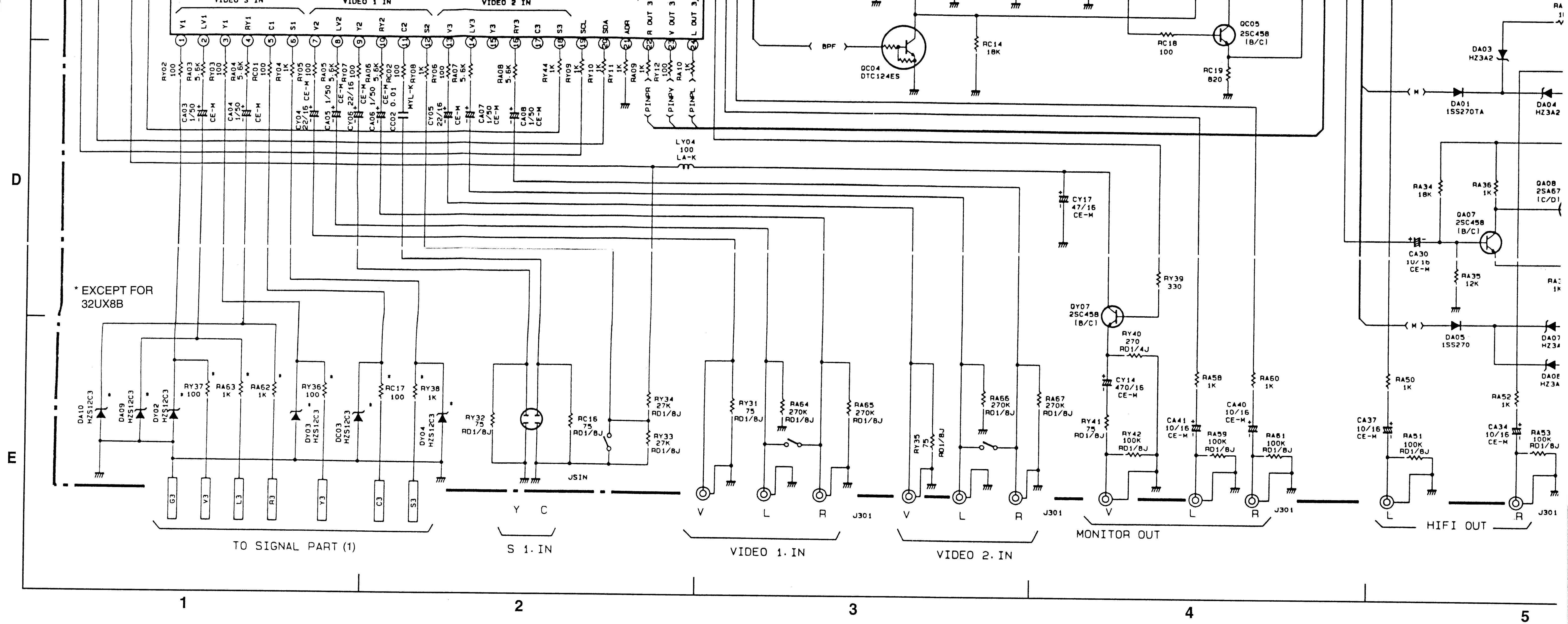
Circuit No.	Pin No.	DC Voltage Vdc
IF01	1	3.9
	2	5.8
	3	6.9
	4	4.5
	5	4.5
	6	4.5
	7	0
	8	3.6
	9	8.7
	10	4
	11	3.1
	12	3.1
	13	6.9
	14	6
	15	7.7
	16	7.7
	17	4
	18	4.9
	19	3.4
	20	4.14
	21	4.34
	22	7
	23	4.82
	24	2.17

Circuit No.	Pin No.	DC Voltage Vdc
IP31	1	0
	2	1.24
	3	5
	4	0.45
	5	0.3
	6	0.3
	7	4.86
	8	0.3
	9	4.61
	10	5.02
	11	5.02
	12	4.74
	13	4.6
	14	0.3
	15	2.75
	16	5.02

PRODUCT SAFET
any of these comp
through improper s

CIRCUIT SCHEMATIC DIAGRAM OF 35UX80B/CZ58, 35UX70B/CZ57, 35UX70BA/CZ57P, 35TX79K/CZ56, 32UX8B/CY58


1
2
3
4
5
A
B
C
TO SELECTOR PART / SIGNAL PART(1) / IF/AUDIO PART
TVL
TVVIDEO
TVR
SCL1
SCL1
SDA1
SDA1
L
R
MUTE
MUTE
WIRE1
WIRE2
HIFIFL
HIFIFR
HIFIRL
HIFIRR
HIFIPL
HIFIPR
BPF
9V(SSON)
VCCD
YOUT
YIN
CIN
SYNC
YOUT
SYNC2
COUT
PINPR
PINPL
PINPV
M
1
2
FL
FR
RL
RR
PL
PR
R3E2 100
Q317 2SC458 (B/C)
R401 1K
C330 100/16 CE-M
R383 680
R384 820
L302 100 EL
D319 1SS254
R388 100
R3E1 100
Q312 2SA673 (C/D)
C329 4.7/25 CE-M
R385 1.5K
R389 47K
Q314 2SC458 (B/C)
R390 390 RD1/8J
C332 10/16 CE-M
R391 120K RD1/8J
Q315 2SA673 (C/D)
R392 1K
C333 0.015 MYL-K
R394 2.7K
R393 6.8K
R397 18K
C336 0.1 MYL-K
R396 33K
Q316 2SC458 (B/C)
C334 0.033 MYL-K
R395 1.5K
C335 0.0033 MYL-K
C337 0.0033 MYL-K
R398 220K RD1/8J
IA02 4052BC
Y0
Y2
Y
Y3
Y1
X2
X1
X
X0
X3
RR
FR
PR
RA18 18K
RA20 1K
CA28 10/16 CE-M
QA02 2SA67
QA01 2SC458 (B/C)
RA21 1K
CA26 10/16 CE-M
RA19 12K
RA22 1K
FL
FR
DA03 HZ3A2
DA01 1SS270TA
DA04 HZ3A2
LY01 100 EL
CY08 100/16 CE-M
CY09 0.1 MYL-K
CA01 1/50 CE-M
CY01 22/16 CE-M
CA02 1/50 CE-M
RY13 100
CY07 22/16 CE-M
RA11 100
RA12 100
RY14 100
QY08 2SC458 (B/C)
RY45 820
YIN
CIN
LC01 100 LA-K
QC01 2SC458 (B/C)
RC05 100
CC03 22P CCSL-J
CC04 0.01 MYL-K
RC09 15K
QC02 2SC458 (B/C)
QC03 2SC458 (B/C)
RC13 8.2K
CC06 1000/16 CE-M
CC07 39P CCSL-J
LC02 15 LAL-K
RC06 1K
RC11 100
RC12 100
DC01 1SS254
DC02 1SS254
RC10 12K
RC15 1K
RC07 220
CC05 0.01 MYL-K
RC14 18K
QC04 DTC124ES
BPF
QC05 2SC458 (B/C)
RC18 100
RC19 820
RA01 5.6K
RY01 100
RA02 5.6K
RC03 100
RY15 100
RC04 100
IY01 CXA1545AS
LTV
TV
RTV
C OUT 1
VCC
Y OUT
BIAS
TRAP
V OUT 1
L OUT 1
R OUT 1
Y IN 1
GND
C IN 1
MUTE
EV
REV
LEV
TRAP 2
V OUT 2
L OUT 2
Y OUT 2
R OUT 2
C OUT 2
TV IN
MONITOR OUT
PinP OUT
VIDEO 3 IN
VIDEO 1 IN
VIDEO 2 IN
V1
LV1
Y1
RY1
C1
S1
V2
LV2
Y2
RY2
C2
S2
V3
LV3
Y3
RY3
C3
S3
SCL
SDA
ADR
R OUT 3
V OUT 3
L OUT 3
RY02 100
RA03 5.6K
RY03 100
RA04 5.6K
RC01 100
RY04 1K
RY05 100
RA05 5.6K
RY07 100
RA06 5.6K
RC02 100
RY08 1K
RY06 100
RA07 5.6K
RA08 5.6K
RY44 1K
RY09 1K
RY10 1K
RY11 1K
RA09 1K
RY12 100
RA10 1K
CA03 1/50 CE-M
CA04 1/50 CE-M
CY04 22/16 CE-M
CA05 1/50 CE-M
CY06 22/16 CE-M
CA06 1/50 CE-M
CC02 0.01 MYL-K
CY05 22/16 CE-M
CA07 1/50 CE-M
CA08 1/50 CE-M
PINPR
PINPV
PINPL
LY04 100 LA-K


VIDEO 3 IN
VIDEO 1 IN
VIDEO 2 IN
BPF
QC04
DTC124ES
RC14
18K
RC18
100
QC05
2SC458
(B/C)
RC19
820
DA03
HZ3A2
DA01
1SS270TA
DA04
HZ3A2
LY04
100
LA-K
CY17
47/16
CE-M
RA34
18K
RA36
1K
QA07
2SC458
(B/C)
QA08
CA30
10/16
CE-M
RA35
12K
RY39
330
DY07
2SC458
(B/C)
RY40
270
RD1/4J
DA05
1SS270
CY14
470/16
CE-M
RA58
1K
RA60
1K
RA50
1K
RA52
1K
RY41
75
RD1/8J
RY42
100K
RD1/8J
CA41
10/16
CE-M
CA40
10/16
CE-M
RA59
100K
RD1/8J
RA61
100K
RD1/8J
CA37
10/16
CE-M
RA51
100K
RD1/8J
CA34
10/16
CE-M
RA53
100K
RD1/8J
RY31
75
RD1/8J
RA64
270K
RD1/8J
RA65
270K
RD1/8J
RY35
75
RD1/8J
RA66
270K
RD1/8J
RA67
270K
RD1/8J
RY32
75
RD1/8J
RC16
75
RD1/8J
RY34
27K
RD1/8J
RY33
27K
RD1/8J
JSIN
RY37
100
RA63
1K
RA62
1K
RY36
100
RC17
100
RY38
1K
DA10
HZS12C3
DA09
HZS12C3
DY02
HZS12C3
DY03
HZS12C3
DC03
HZS12C3
DY04
HZS12C3
G3
V3
L3
R3
Y3
C3
S3
TO SIGNAL PART (1)
Y
C
S 1. IN
V
L
R
J301
VIDEO 1. IN
VIDEO 2. IN
MONITOR OUT
HIFI OUT
D
E
1
2
3
4
5

* EXCEPT FOR 32UX8B

- Since this is a basic circuit diagram, th
- All DC voltage to be measured with a

Circuit No.	Pin No.	DC Voltage Vdc
IS01	1	4.6
	2	4.6
	3	4.5
	4	4.5
	5	4.5
	6	4.5
	7	4.5
	8	4.5
	9	4.5
	10	4.5
	11	0
	12	4.5
	13	4.5
	14	4.5
	15	4.5
	16	5.3
	17	4.5
	18	5.3
	19	5
	20	5
	21	5
	22	4.3
	23	4.3
	24	4.3
	25	5.3

Circuit No.	Pin No.	DC Voltage Vdc
IS01	26	4.5
	27	5.3
	28	4.5
	29	4.5
	30	4.5
	31	4.5
	32	4.5
	33	4.5
	34	4.5
	35	4.5
	36	4.5
	37	4.5
	38	9
	39	0.1
	40	5.2
	41	5.2
	42	5.2

Circuit No.	Pin No.	DC Voltage Vdc
IS02	1	0
	2	5.2
	3	5.2
	4	5.2
	5	2.4
	6	0.8
	7	9.4
	8	4.7
	9	4.8
	10	4.8
	11	4.8
	12	4.8
	13	4.8
	14	4.8
	15	4.8
	16	4.8
	17	0
	18	4.8
	19	4.8
	20	4.8
	21	4.8
	22	4.8
	23	2.4
	24	2.4

Circuit No.	Pin No.	DC Voltage Vdc
IS03	1	9.3
	2	1.4
	3	1.9
	4	0
	5	4.8
	6	4.8
	7	4.8
	8	9.4

Circuit No.	Pin No.	DC Voltage Vdc
IS04	1	4.5
	2	4.5
	3	4.5
	4	0
	5	4.5
	6	4.5
	7	4.5
	8	9

Circuit No.	Pin No.	DC Voltage Vdc
IS05	1	1.9
	2	2.1
	3	0
	4	1.9
	5	2.1
	6	2.1
	7	1.9
	8	9.2
	9	27.1
	10	13.2
	11	2.1
	12	2.8
	13	0
	14	13.3
	15	5.1
	16	4.3
	17	12.9

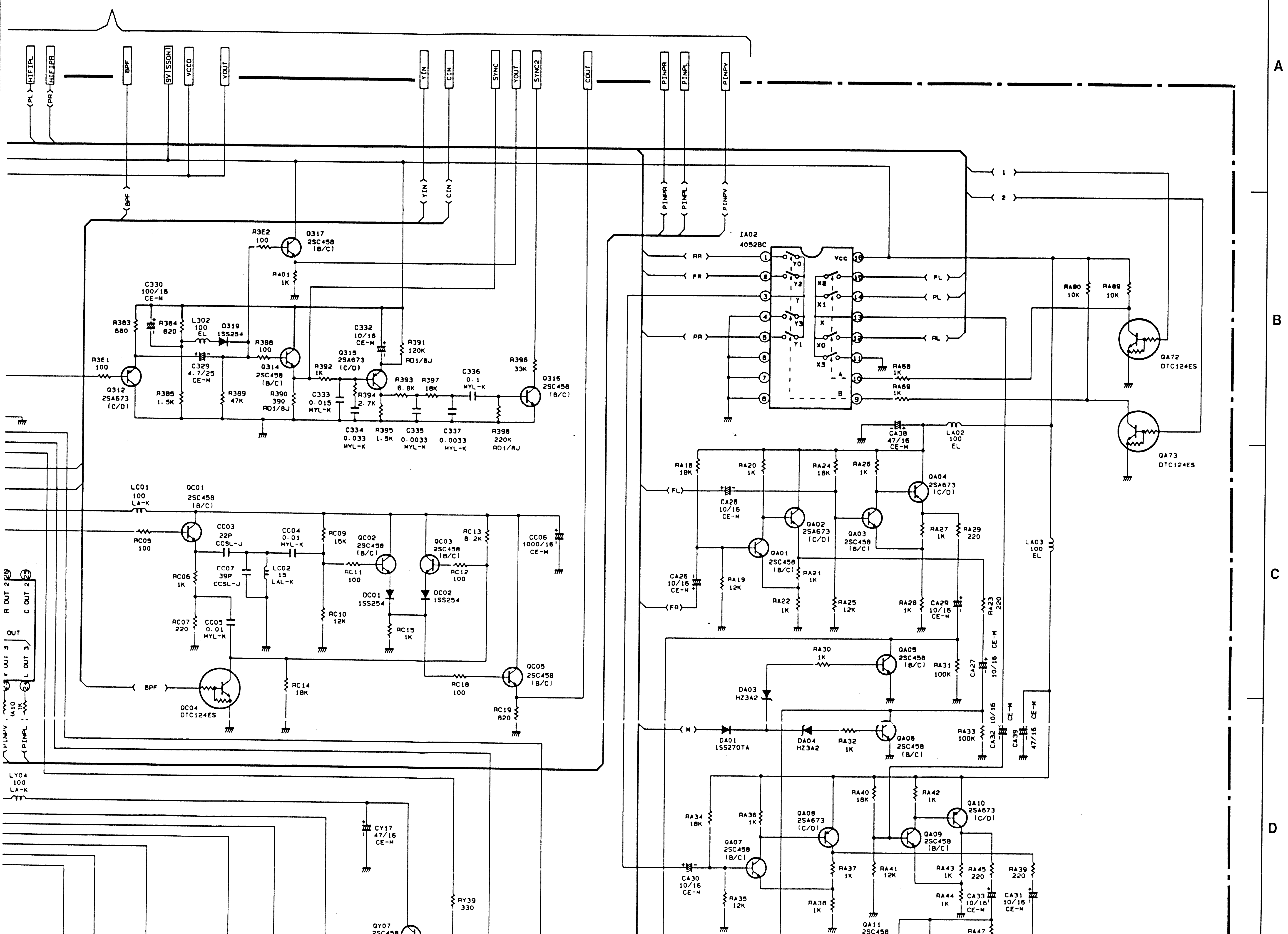
Circuit No.	Pin No.	DC Voltage Vdc
IS06	1	4.4
	2	0.2
	3	4.4
	4	8.6
	5	4.4
	6	8.7
	7	4.4
	8	0
	9	4.4
	10	4.4
	11	4.4
	12	4.4
	13	4.4
	14	4.4
	15	4.4
	16	5
	17	5
	18	4.4
	19	4.4
	20	4.4
	21	4.4
	22	4.4
	23	4.4
	24	4.4
	25	0

Circuit No.	Pin No.	DC Voltage Vdc
IS06	26	4.4
	27	4.4
	28	4.4
	29	4.4
	30	4.4
	31	8.7
	32	4.4

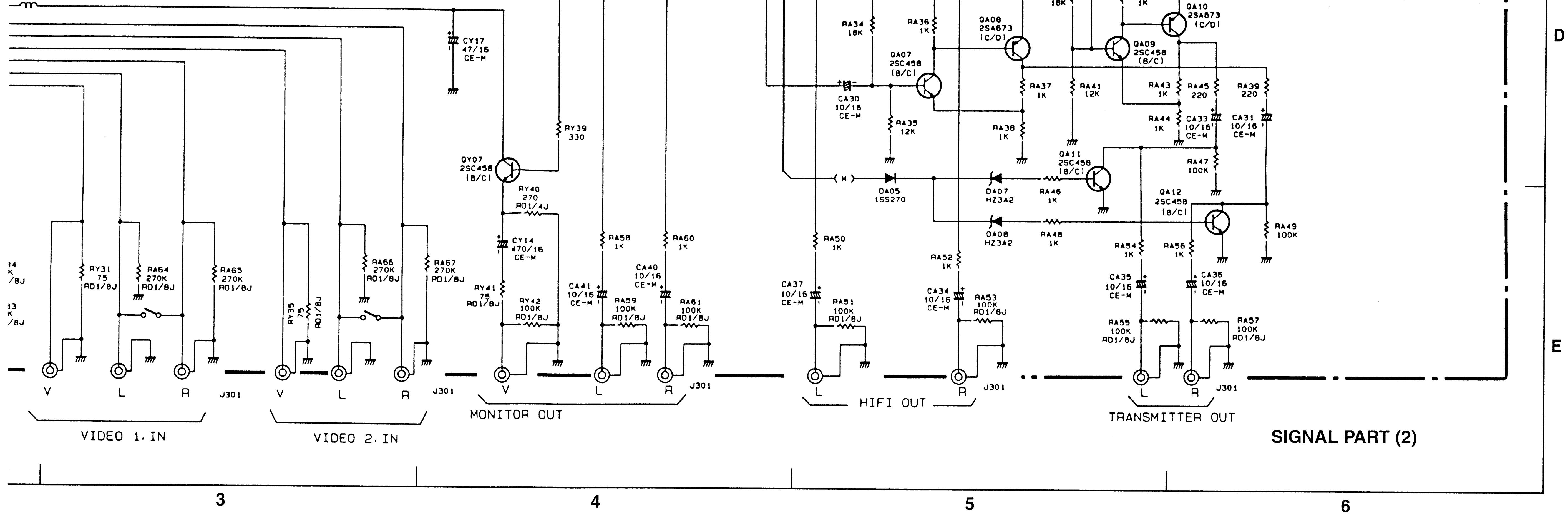
Circuit No.	Pin No.	DC Voltage Vdc
IS08	1	4.2
	2	4.2
	3	0
	4	0
	5	0
	6	0
	7	0
	8	0
	9	0
	10	0.1
	11	0.1
	12	4.2
	13	4.2
	14	4.2
	15	4.2
	16	9

Circuit No.	Pin N
IT01	1
	2
	3
	4

CTOR PART / SIGNAL PART(1) / IF/AUDIO PART



3
4
5
6
A
B
C
D
HIFIPL
HIFIPR
PL
PR
BPF
9V(SSON)
VCCD
YOUT
YIN
CIN
SYNC
YOUT
SYNC2
COUT
PINPR
PINPL
PINPV
BPF
YIN
CIN
PINPR
PINPL
PINPV
1
2
R3E2 100
Q317 2SC458 (B/C)
R401 1K
C330 100/16 CE-M
R383 680
R384 820
L302 100 EL
D319 1SS254
R388 100
Q314 2SC458 (B/C)
C329 4.7/25 CE-M
R3E1 100
Q312 2SA673 (C/D)
R385 1.5K
R389 47K
R390 390 RD1/8J
C332 10/16 CE-M
R391 120K RD1/8J
Q315 2SA673 (C/D)
R392 1K
R394 2.7K
C333 0.015 MYL-K
C334 0.033 MYL-K
R395 1.5K
R393 6.8K
R397 18K
C335 0.0033 MYL-K
C337 0.0033 MYL-K
C336 0.1 MYL-K
R396 33K
Q316 2SC458 (B/C)
R398 220K RD1/8J
LC01 100 LA-K
QC01 2SC458 (B/C)
RC05 100
CC03 22P CCSL-J
CC04 0.01 MYL-K
RC09 15K
QC02 2SC458 (B/C)
QC03 2SC458 (B/C)
RC13 8.2K
CC06 1000/16 CE-M
RC06 1K
CC07 39P CCSL-J
LC02 15 LAL-K
RC11 100
RC12 100
DC01 1SS254
DC02 1SS254
RC07 220
CC05 0.01 MYL-K
RC10 12K
RC15 1K
BPF
QC04 DTC124ES
RC14 18K
RC18 100
QC05 2SC458 (B/C)
RC19 820
LY04 100 LA-K
CY17 47/16 CE-M
RY39 330
QY07 2SC458
R OUT 2
C OUT 2
OUT
V OUT 3
L OUT 3
RA10 1K
PINPV
PINPL
IA02 4052BC
RR
FR
PR
Y0
Y2
Y
Y3
Y1
Vcc
X2
X1
X
X0
X3
A
B
FL
PL
RL
RA90 10K
RA89 10K
RA68 1K
RA69 1K
QA72 DTC124ES
QA73 DTC124ES
CA38 47/16 CE-M
LA02 100 EL
RA18 18K
RA20 1K
RA24 18K
RA26 1K
QA04 2SA673 (C/D)
FL
CA28 10/16 CE-M
QA02 2SA673 (C/D)
QA03 2SC458 (B/C)
RA27 1K
RA29 220
LA03 100 EL
QA01 2SC458 (B/C)
RA21 1K
CA26 10/16 CE-M
RA19 12K
RA22 1K
RA25 12K
RA28 1K
CA29 10/16 CE-M
RA23 220
FR
RA30 1K
QA05 2SC458 (B/C)
RA31 100K
CA27 10/16 CE-M
DA03 HZ3A2
M
DA01 1SS270TA
DA04 HZ3A2
RA32 1K
QA06 2SC458 (B/C)
RA33 100K
CA32 10/16 CE-M
CA39 47/16 CE-M
RA40 18K
RA42 1K
QA10 2SA673 (C/D)
RA34 18K
RA36 1K
QA08 2SA673 (C/D)
QA09 2SC458 (B/C)
QA07 2SC458 (B/C)
CA30 10/16 CE-M
RA37 1K
RA41 12K
RA43 1K
RA45 220
RA39 220
RA35 12K
RA38 1K
RA44 1K
CA33 10/16 CE-M
CA31 10/16 CE-M
QA11 2SC458
RA47


CY17
47/16
CE-M
RY39
330
QY07
2SC458
(B/C)
RY40
270
RD1/4J
CY14
470/16
CE-M
RY41
75
RD1/8J
RY42
100K
RD1/8J
RA58
1K
RA60
1K
CA40
10/16
CE-M
CA41
10/16
CE-M
RA59
100K
RD1/8J
RA61
100K
RD1/8J
RY31
75
RD1/8J
RA64
270K
RD1/8J
RA65
270K
RD1/8J
RY35
75
RD1/8J
RA66
270K
RD1/8J
RA67
270K
RD1/8J
V
L
R
J301
VIDEO 1. IN
VIDEO 2. IN
MONITOR OUT
RA34
18K
RA36
1K
QA08
2SA673
(C/D)
QA07
2SC458
(B/C)
QA09
2SC458
(B/C)
QA10
2SA673
(C/D)
CA30
10/16
CE-M
RA35
12K
RA37
1K
RA41
12K
RA38
1K
RA43
1K
RA45
220
RA39
220
RA44
1K
CA33
10/16
CE-M
CA31
10/16
CE-M
QA11
2SC458
(B/C)
RA47
100K
DA05
1SS270
DA07
HZ3A2
RA46
1K
QA12
2SC458
(B/C)
DA08
HZ3A2
RA48
1K
RA49
100K
RA50
1K
RA52
1K
RA54
1K
RA56
1K
CA37
10/16
CE-M
RA51
100K
RD1/8J
CA34
10/16
CE-M
RA53
100K
RD1/8J
CA35
10/16
CE-M
CA36
10/16
CE-M
RA55
100K
RD1/8J
RA57
100K
RD1/8J
HIFI OUT
TRANSMITTER OUT
D
E
3
4
5
6

SIGNAL PART (2)

- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.
- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.

Pin No.	DC Voltage Vdc
1	0
2	5.2
3	5.2
4	5.2
5	2.4
6	0.8
7	9.4
8	4.7
9	4.8
10	4.8
11	4.8
12	4.8
13	4.8
14	4.8
15	4.8
16	4.8
17	0
18	4.8
19	4.8
20	4.8
21	4.8
22	4.8
23	2.4
24	2.4

Circuit No.	Pin No.	DC Voltage Vdc
IS03	1	9.3
	2	1.4
	3	1.9
	4	0
	5	4.8
	6	4.8
	7	4.8
	8	9.4

Circuit No.	Pin No.	DC Voltage Vdc
IS04	1	4.5
	2	4.5
	3	4.5
	4	0
	5	4.5
	6	4.5
	7	4.5
	8	9

Circuit No.	Pin No.	DC Voltage Vdc
IS05	1	1.9
	2	2.1
	3	0
	4	1.9
	5	2.1
	6	2.1
	7	1.9
	8	9.2
	9	27.1
	10	13.2
	11	2.1
	12	2.8
	13	0
	14	13.3
	15	5.1
	16	4.3
	17	12.9

Circuit No.	Pin No.	DC Voltage Vdc
IS06	1	4.4
	2	0.2
	3	4.4
	4	8.6
	5	4.4
	6	8.7
	7	4.4
	8	0
	9	4.4
	10	4.4
	11	4.4
	12	4.4
	13	4.4
	14	4.4
	15	4.4
	16	5
	17	5
	18	4.4
	19	4.4
	20	4.4
	21	4.4
	22	4.4
	23	4.4
	24	4.4
	25	0

Circuit No.	Pin No.	DC Voltage Vdc
IS06	26	4.4
	27	4.4
	28	4.4
	29	4.4
	30	4.4
	31	8.7
	32	4.4

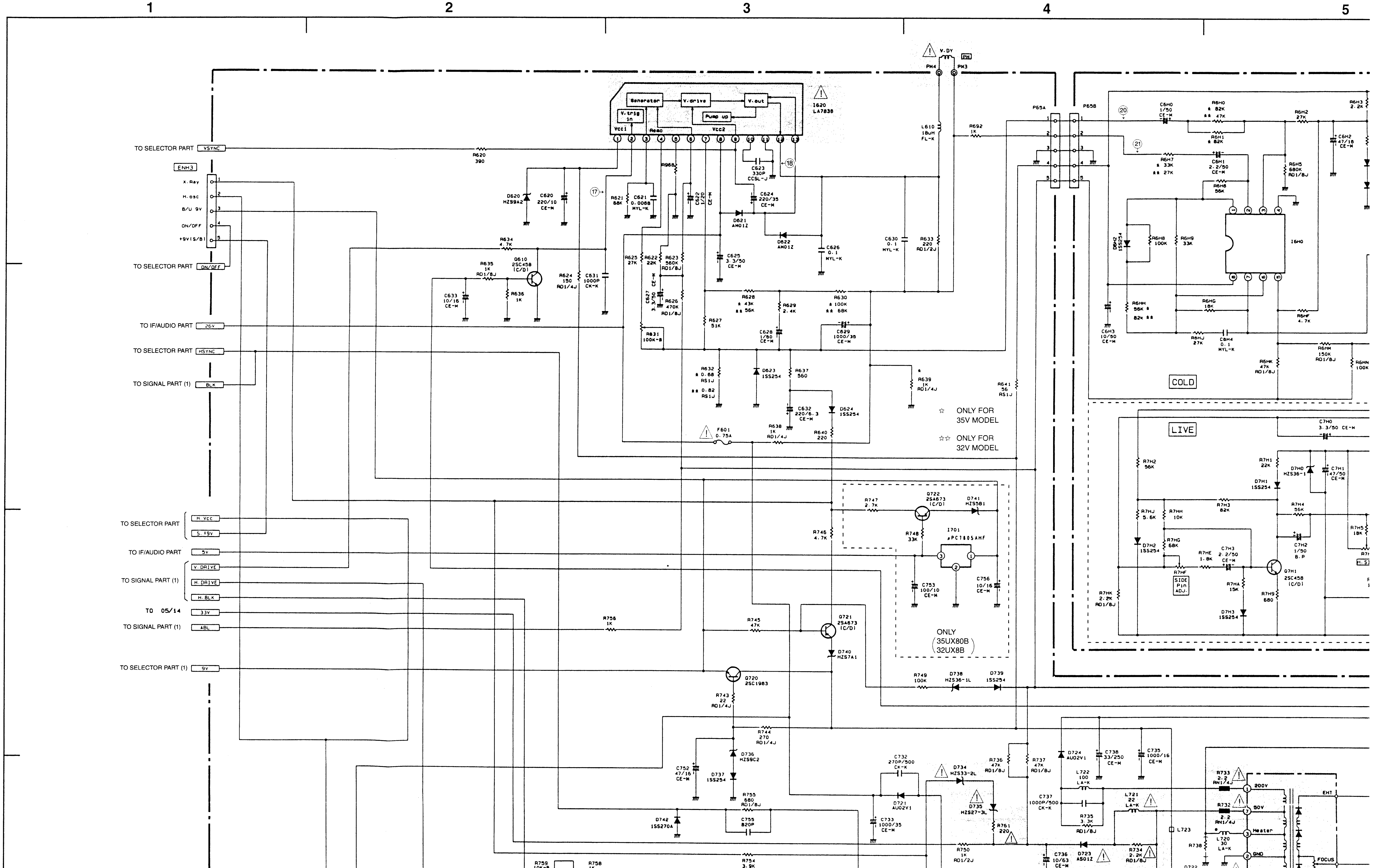
Circuit No.	Pin No.	DC Voltage Vdc
IS08	1	4.2
	2	4.2
	3	0
	4	0
	5	0
	6	0
	7	0
	8	0
	9	0
	10	0.1
	11	0.1
	12	4.2
	13	4.2
	14	4.2
	15	4.2
	16	9

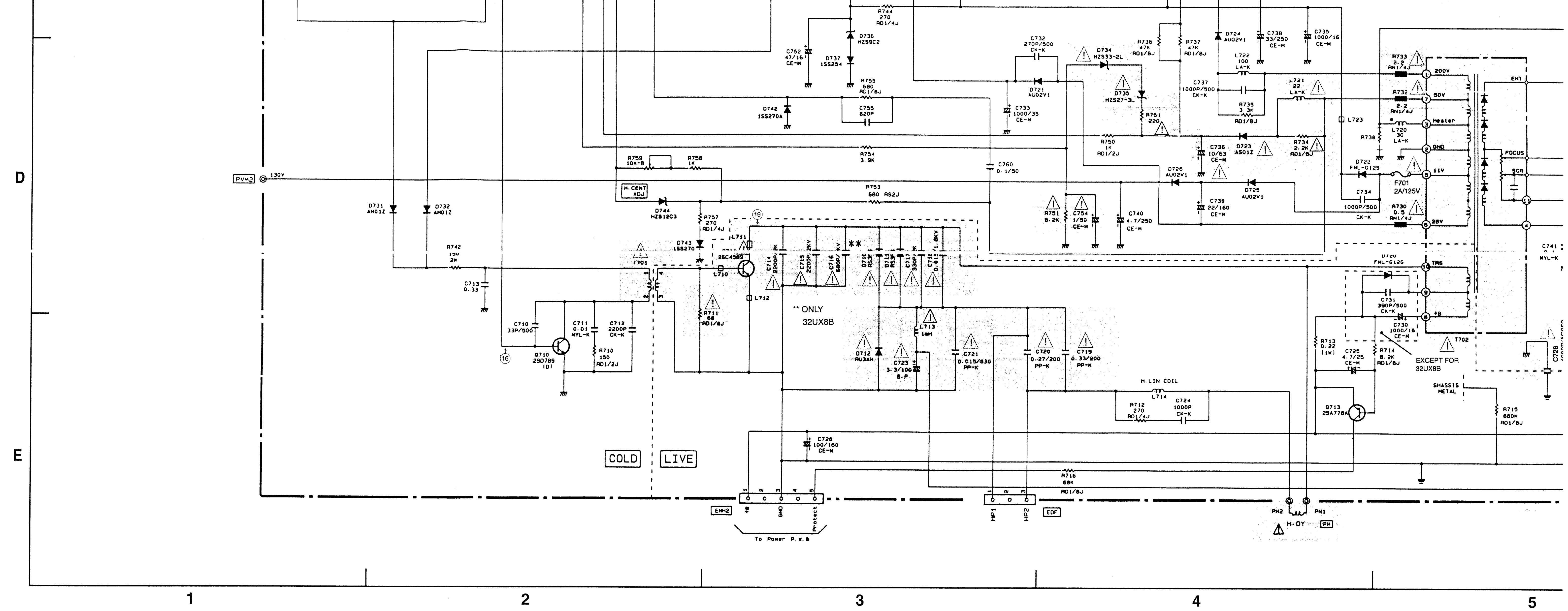
Circuit No.	Pin No.	DC Voltage Vdc
IT01	1	165
	2	165
	3	0
	4	2.34

Circuit No.	Pin No.	DC Voltage Vdc
IX01	1	1.6
	2	0
	3	5.2
	4	3.6
	5	2.3
	6	1.4
	7	3.3
	8	0
	9	2.6
	10	2.1
	11	2.4
	12	5.2
	13	0
	14	0
	15	0
	16	0
	17	5.2
	18	0
	19	0
	20	5.2
	21	0
	22	3.6
	23	4.5
	24	1.9
	25	4.3
	26	3.8
	27	5.2
	28	0

CIRCUIT SCHEMATIC DIAGRAM OF 35UX80B/CZ58, 35UX70B/CZ57, 35UX70BA/CZ57P, 35TX79K/CZ56, 32UX8B/CY58

PRODUCT SAFE
any of these com
through improper


1
2
3
4
5
A
B
C
V.DY
PH
PH4
PH3
Generator
V.drive
V.out
V.trig in
Pump up
Vcc1
Remo
Vcc2
I620
LA7838
TO SELECTOR PART
VSYNC
ENH3
X.Ray
H.osc
B/U 9V
ON/OFF
+9V(S/B)
TO SELECTOR PART
ON/OFF
TO IF/AUDIO PART
26V
TO SELECTOR PART
HSYNC
TO SIGNAL PART (1)
BLK
TO SELECTOR PART
H.Vcc
S.+9V
TO IF/AUDIO PART
5V
TO SIGNAL PART (1)
V.DRIVE
H.DRIVE
H.BLK
TO 05/14
33V
TO SIGNAL PART (1)
ABL
TO SELECTOR PART (1)
9V
R620 390
D620 HZ9A2
C620 220/10 CE-M
R621 68K
C621 0.0068 MYL-K
R968
C622 1/20 CE-M
C623 330P CCSL-J
C624 220/35 CE-M
D621 AM01Z
D622 AM01Z
C626 0.1 MYL-K
L610 18uH FL-K
R692 1K
C630 0.1 MYL-K
R633 220 RD1/2J
R634 4.7K
R635 1K RD1/8J
Q610 2SC458 (C/D)
C633 10/16 CE-M
R636 1K
R624 150 RD1/4J
C631 1000P CK-K
R625 27K
R622 22K
R623 560K RD1/8J
C625 3.3/50 CE-M
C627 3.3/50 CE-M
R626 470K RD1/8J
R628 ☆ 43K ☆☆ 56K
R629 2.4K
R630 ☆ 100K ☆☆ 68K
R627 51K
C628 1/50 CE-M
C629 1000/35 CE-M
R631 100K-B
R632 ☆ 0.68 RS1J ☆☆ 0.82 RS1J
D623 1SS254
R637 560
R639 1K RD1/4J
R641 56 RS1J
C632 220/6.3 CE-M
D624 1SS254
F601 0.75A
R638 1K RD1/4J
R640 220
☆ ONLY FOR 35V MODEL
☆☆ ONLY FOR 32V MODEL
P65A
P65B
R747 2.7K
Q722 2SA673 (C/D)
D741 HZS5B1
R746 4.7K
R748 33K
I701 μPC1805AHF
C753 100/10 CE-M
C756 10/16 CE-M
ONLY (35UX80B 32UX8B)
R756 1K
R745 47K
Q721 2SA673 (C/D)
D740 HZS7A1
Q720 2SC1983
R743 22 RD1/4J
R744 270 RD1/4J
R749 100K
D738 HZS36-1L
D739 1SS254
D736 HZS9C2
C752 47/16 CE-M
D737 1SS254
R755 680 RD1/8J
C755 820P
D742 1SS270A
R759
R758
R754 3.9K
C732 270P/500 CK-K
D734 HZS33-2L
R736 47K RD1/8J
R737 47K RD1/8J
D724 AU02V1
C738 33/250 CE-M
C735 1000/16 CE-M
L722 100 LA-K
D721 AU02V1
D735 HZS27-3L
C733 1000/35 CE-M
R761 220
C737 1000P/500 CK-K
R735 3.3K RD1/8J
L721 22 LA-K
R750 1K RD1/2J
C736 10/63 CE-M
D723 AS01Z
R734 2.2K RD1/8J
L723
R733 2.2 RN1/4J
R732 2.2 RN1/4J
R738
L720 30 LA-K
200V
50V
Heater
GND
EHT
FOCUS
C6H0 1/50 CE-M
R6H0 ☆ 82K ☆☆ 47K
R6H1 ☆ 82K
R6H2 27K
R6H3 2.2K
C6H2 47/16 CE-M
R6H7 ☆ 33K ☆☆ 27K
C6H1 2.2/50 CE-M
R6H8 56K
R6H5 680K RD1/8J
D6H2 1SS254
R6H8 100K
R6H9 33K
I6H0
C6H3 10/50 CE-M
R6HH 56K ☆ 82K ☆☆
R6HG 18K
R6HJ 27K
C6H4 0.1 MYL-K
R6HF 4.7K
R6HM 150K RD1/8J
R6HK 47K RD1/8J
R6HN 100K
COLD
LIVE
C7H0 3.3/50 CE-M
R7H2 56K
R7H1 22K
D7H0 HZS36-1
C7H1 47/50 CE-M
D7H1 1SS254
R7HJ 5.6K
R7HH 10K
R7H3 82K
R7H4 56K
D7H2 1SS254
R7HG 68K
R7HE 1.8K
C7H3 2.2/50 CE-M
C7H2 1/50 B.P
R7H5 18K
R7HF SIDE Pin ADJ.
R7HA 15K
Q7H1 2SC458 (C/D)
R7HK 2.2K RD1/8J
R7H9 680
D7H3 1SS254
⑰
⑱
⑳
㉑


D
E
1
2
3
4
5
PVM2
130V
D731 AM01Z
D732 AM01Z
R742 150 2W
C713 0.33
T701
C710 33P/500
Q710 2SD789 (D)
C711 0.01 MYL-K
C712 2200P CK-K
R710 150 RD1/2J
R759 10K-B
R758 1K
H.CENT ADJ
D744 HZS12C3
D743 1SS270
R757 270 RD1/4J
R711 68 RD1/8J
2SC4589
L710
L711
L712
C714 2200P 2K
C715 2200P 2KV
C716 680P 2KV
D710 RS3F
D711 RS3F
C717 330P 2K
C718 0.012 1.6KV
** ONLY 32UX8B
D712 RU3AM
C723 3.3/100 B.P
L713 18MH
C721 0.015/630 PP-K
C720 0.27/200 PP-K
C719 0.33/200 PP-K
C728 100/160 CE-M
COLD
LIVE
ENH2
+B
GND
Protect
To Power P.W.B
HP1
HP2
EDF
R716 68K RD1/8J
H.LIN COIL
L714
R712 270 RD1/4J
C724 1000P CK-K
R744 270 RD1/4J
D736 HZS9C2
C752 47/16 CE-M
D737 1SS254
R755 680 RD1/8J
C755 820P
D742 1SS270A
R754 3.9K
R753 680 RS2J
C760 0.1/50
C732 270P/500 CK-K
D721 AU02V1
C733 1000/35 CE-M
D734 HZS33-2L
D735 HZS27-3L
R761 220
R750 1K RD1/2J
R751 8.2K
C754 1/50 CE-M
C740 4.7/250 CE-M
R736 47K RD1/8J
R737 47K RD1/8J
D724 AU02V1
C738 33/250 CE-M
C735 1000/16 CE-M
L722 100 LA-K
C737 1000P/500 CK-K
R735 3.3K RD1/8J
L721 22 LA-K
C736 10/63 CE-M
D723 AS01Z
R734 2.2K RD1/8J
D726 AU02V1
D725 AU02V1
C739 22/160 CE-M
L723
R738
R733 2.2 RN1/4J
R732 2.2 RN1/4J
L720 30 LA-K
D722 FML-G12S
F701 2A/125V
C734 1000P/500 CK-K
R730 0.5 RN1/4J
200V
50V
Heater
GND
11V
28V
EHT
FOCUS
SCA
TRS
48
D720 FML-G12G
C731 390P/500 CK-K
C730 1000/16 CE-M
R713 0.22 (1W)
C725 4.7/25 CE-M
R714 8.2K RD1/8J
T702
EXCEPT FOR 32UX8B
CHASSIS METAL
R715 680K RD1/8J
Q713 2SA778A
C741 MYL-K
C726
PM2
PM1
H-DY
PM

- Since this is a basic circuit diagram, th
- All DC voltage to be measured with a

Circuit No.	Pin No.	DC Voltage Vdc
Q941	B	0
	C	21.3
	E	0
Q945	B	21.4
	C	0
	E	21.5
Q951	G	0
	A	130
	K	0
Q961	G	-81.57
	D	79.9
	S	-83.37
Q962	B	17.5
	C	0
	E	3.5
Q963	B	31.2
	C	0
	E	31.5
Q964	B	12.5
	C	0
	E	12.5
Q9N2	B	0.7
	C	0.1
	E	0.02

Circuit No.	Pin No.	DC Voltage Vdc
Q9N3	B	20.66
	C	21.38
	E	21.41
QA01	B	1.8
	C	8.4
	E	1.2
QA02	B	8.4
	C	4.1
	E	9
QA03	B	1.8
	C	8.4
	E	1.2
QA04	B	8.4
	C	4
	E	9
QA05	B	0
	C	0
	E	0
QA06	B	0
	C	0
	E	0
QA07	B	1.8
	C	8.4
	E	1.2

Circuit No.	Pin No.	DC Voltage Vdc
QA08	B	8.4
	C	4
	E	9
QA09	B	1.8
	C	8.4
	E	1.2
QA10	B	8.4
	C	4.1
	E	9
QA11	B	0
	C	0
	E	0
QA12	B	0
	C	0
	E	0
QA70	B	2.7
	C	9
	E	2
QA71	B	2.7
	C	9
	E	2.1
QA72	B	5
	C	0
	E	0

Circuit No.	Pin No.	DC Voltage Vdc
QA73	B	0
	C	9
	E	0
QC01	B	4.6
	C	9
	E	3.9
QC02	B	3.9
	C	9
	E	3.2
QC03	B	0
	C	9
	E	0.1
QC04	B	5
	C	0
	E	0
QC05	B	2.6
	C	9
	E	1.9
QF01	B	11.6
	C	617.8
	E	11.1
QF02	B	5.9
	C	10.8
	E	5.6

Circuit No.	Pin No.	DC Voltage Vdc
QF03	B	2.5
	C	4.7
	E	1.9
QM01	B	0.7
	C	0.1
	E	0
QM02	B	0
	C	1.6
	E	9.1
QS01	B	4.4
	C	9.4
	E	3.7
QS02	B	4.4
	C	9.4
	E	3.7
QS03	B	0
	C	4.2
	E	0
QS04	B	0
	C	9.2
	E	0
QS05	B	0.3
	C	0
	E	0

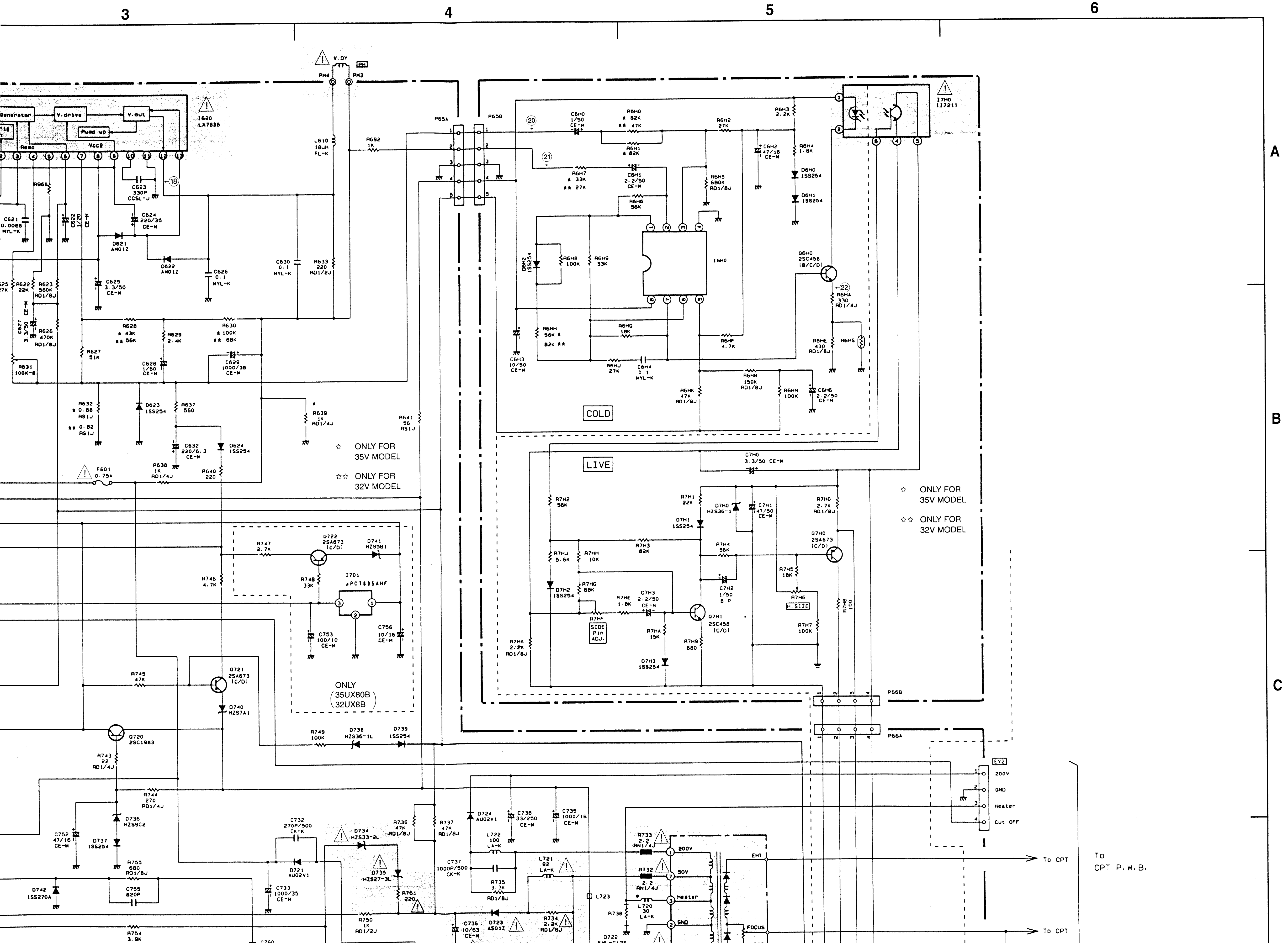
Circuit No.	Pin No.	DC Voltage Vdc
QS06	B	0.2
	C	0
	E	0
QS07	B	0.3
	C	0
	E	0
QS08	B	0.6
	C	0
	E	0
QSN1	B	21.2
	C	21.29
	E	20.57
QSN2	B	0.8
	C	0.2
	E	0
QSN3	B	20.5
	C	21.2
	E	21.2
QT01	B	5.8
	C	8
	E	5.1
QT02	B	5.8
	C	8
	E	5.1

Circuit No.	Pin No.	DC Voltage Vdc
QT03	B	4.1
	C	5.8
	E	3.4
QT04	B	4
	C	8
	E	3.4
QT05	B	2.2
	C	3.4
	E	1.5
QT06	B	4.1
	C	5.8
	E	3.5
QT07	B	4
	C	8
	E	3.5
QT08	B	2.2
	C	3.5
	E	1.5
QV01	B	0
	C	15.58
	E	2.43
QV02	B	1.22
	C	13.12
	E	0.55

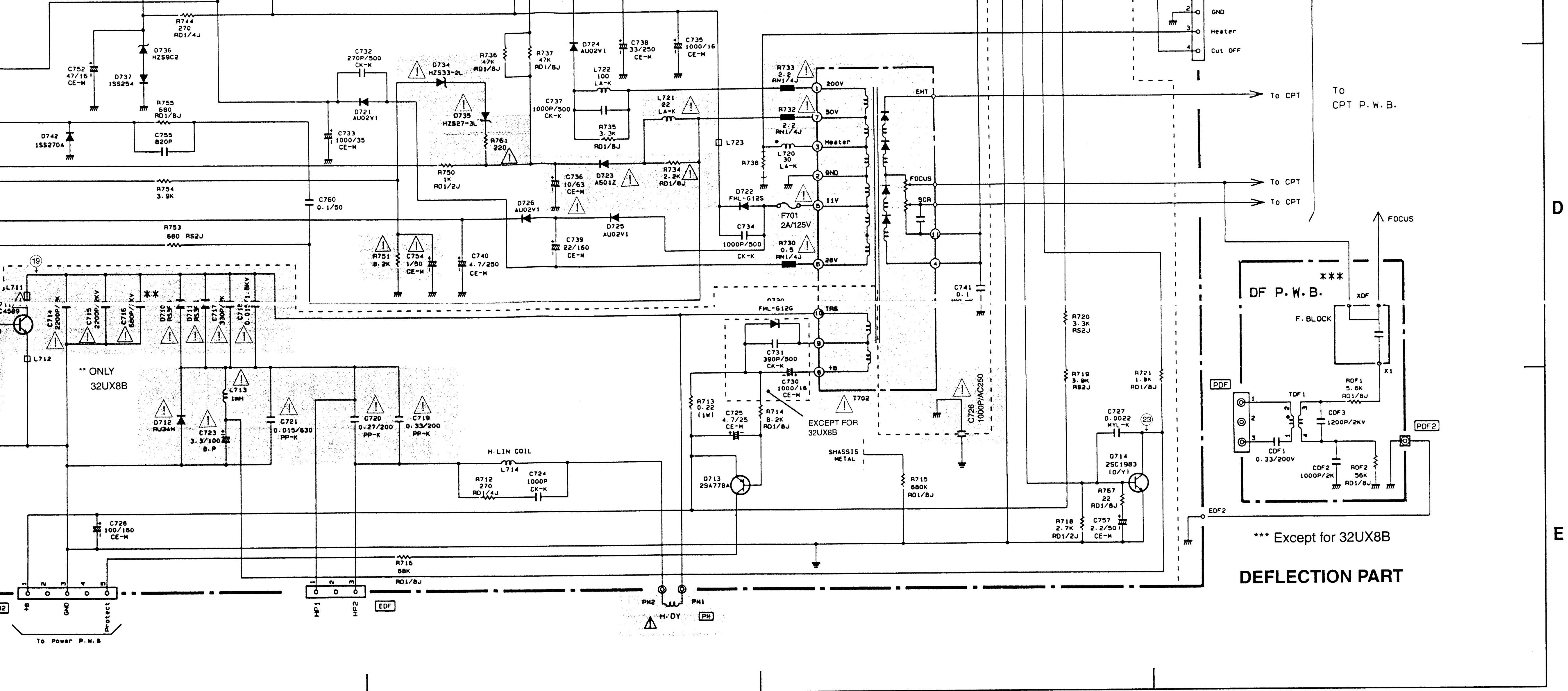
Circuit No.	Pin No.	DC Voltage Vdc
QV03	B	2.05
	C	9.47
	E	1.35
QV04	B	9.47
	C	15.56
	E	8.8
QV05	B	2.46
	C	5.27
	E	1.77
QV06	B	1.3
	C	8.34
	E	0.59
QV07	B	8.35
	C	15.55
	E	8.47
QV08	B	8.35
	C	0
	E	8.43
QV09	B	124.4
	C	53.5
	E	123.84
QV10	B	0
	C	55
	E	0.8

RCUIT SCHEMATIC DIAGRAM OF 35UX80B/CZ58, 35UX70B/CZ57, UX70BA/CZ57P, 35TX79K/CZ56, 32UX8B/CY58

PRODUCT SAFETY NOTE: Components marked with a ⚠ and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.



3
4
5
6
A
B
C
V.DY
PH4
PH3
PH
Generator
V.drive
V.out
Pump up
Vcc2
I620
LA7838
L610
18uH
FL-K
R692
1K
P65A
P65B
R968
C621
0.0068
MYL-K
C622
1/20
CE-M
C623
330P
CCSL-J
C624
220/35
CE-M
D621
AM01Z
D622
AM01Z
C625
3.3/50
CE-M
C626
0.1
MYL-K
C630
0.1
MYL-K
R633
220
RD1/2J
R622
22K
R623
560K
RD1/8J
R626
470K
RD1/8J
R627
51K
R628
☆ 43K
☆☆ 56K
R629
2.4K
R630
☆ 100K
☆☆ 68K
C628
1/50
CE-M
C629
1000/35
CE-M
R631
100K-B
R632
☆ 0.68
RS1J
☆☆ 0.82
RS1J
D623
1SS254
R637
560
R639
1K
RD1/4J
R641
56
RS1J
C632
220/6.3
CE-M
D624
1SS254
R638
1K
RD1/4J
R640
220
F601
0.75A
☆ ONLY FOR 35V MODEL
☆☆ ONLY FOR 32V MODEL
R747
2.7K
Q722
2SA673
(C/D)
D741
HZS5B1
R746
4.7K
R748
33K
I701
μPC7805AHF
C753
100/10
CE-M
C756
10/16
CE-M
ONLY (35UX80B 32UX8B)
R745
47K
Q721
2SA673
(C/D)
D740
HZS7A1
Q720
2SC1983
R743
22
RD1/4J
R749
100K
D738
HZS36-1L
D739
1SS254
R744
270
RD1/4J
D736
HZS9C2
C752
47/16
CE-M
D737
1SS254
R755
680
RD1/8J
C755
820P
D742
1SS270A
R754
3.9K
C760
C732
270P/500
CK-K
D734
HZS33-2L
R736
47K
RD1/8J
R737
47K
RD1/8J
D721
AU02V1
C733
1000/35
CE-M
D735
HZS27-3L
R761
220
R750
1K
RD1/2J
D724
AU02V1
C738
33/250
CE-M
C735
1000/16
CE-M
L722
100
LA-K
C737
1000P/500
CK-K
L721
22
LA-K
R735
3.3K
RD1/8J
C736
10/63
CE-M
D723
AS01Z
R734
2.2K
RD1/8J
D722
L723
R738
R733
2.2
RN1/4J
R732
2.2
RN1/4J
L720
30
LA-K
200V
50V
Heater
GND
EHT
FOCUS
To CPT
To CPT P.W.B.
EY2
200V
GND
Heater
Cut OFF
P66B
P66A
C6H0
1/50
CE-M
R6H0
☆ 82K
☆☆ 47K
R6H1
☆ 82K
R6H2
27K
R6H3
2.2K
C6H2
47/16
CE-M
R6H4
1.8K
D6H0
1SS254
D6H1
1SS254
R6H7
☆ 33K
☆☆ 27K
C6H1
2.2/50
CE-M
R6H6
56K
R6H5
680K
RD1/8J
I6H0
D6H2
1SS254
R6H8
100K
R6H9
33K
Q6H0
2SC458
(B/C/D)
R6HA
330
RD1/4J
C6H3
10/50
CE-M
R6HH
56K ☆
82K ☆☆
R6HG
18K
R6HF
4.7K
R6HJ
27K
C6H4
0.1
MYL-K
R6HE
430
RD1/8J
R6HS
R6HM
150K
RD1/8J
R6HK
47K
RD1/8J
R6HN
100K
C6H6
2.2/50
CE-M
I7H0
(I721)
COLD
LIVE
C7H0
3.3/50 CE-M
R7H2
56K
R7H1
22K
D7H0
HZS36-1
C7H1
47/50
CE-M
D7H1
1SS254
R7H0
2.7K
RD1/8J
Q7H0
2SA673
(C/D)
R7H3
82K
R7H4
56K
R7HJ
5.6K
R7HH
10K
R7H5
18K
D7H2
1SS254
R7HG
68K
R7HE
1.8K
C7H3
2.2/50
CE-M
C7H2
1/50
B.P
R7H6
H.SIZE
R7HF
SIDE Pin ADJ.
Q7H1
2SC458
(C/D)
R7HA
15K
R7HK
2.2K
RD1/8J
R7H9
680
R7H7
100K
R7H8
100
D7H3
1SS254
☆ ONLY FOR 35V MODEL
☆☆ ONLY FOR 32V MODEL


R744 270 RD1/4J
D736 HZS9C2
C752 47/16 CE-M
D737 1SS254
R755 680 RD1/8J
C755 820P
D742 1SS270A
R754 3.9K
R753 680 RS2J
C760 0.1/50
C732 270P/500 CK-K
D721 AU02V1
C733 1000/35 CE-M
D734 HZS33-2L
D735 HZS27-3L
R736 47K RD1/8J
R737 47K RD1/8J
R761 220
R750 1K RD1/2J
D724 AU02V1
L722 100 LA-K
C738 33/250 CE-M
C735 1000/16 CE-M
C737 1000P/500 CK-K
R735 3.3K RD1/8J
L721 22 LA-K
C736 10/63 CE-M
D723 AS01Z
R734 2.2K RD1/8J
D726 AU02V1
D725 AU02V1
C739 22/160 CE-M
R751 8.2K
C754 1/50 CE-M
C740 4.7/250 CE-M
R733 2.2 RN1/4J
R732 2.2 RN1/4J
L723
R738
L720 30 LA-K
D722 FML-G12S
F701 2A/125V
C734 1000P/500 CK-K
R730 0.5 RN1/4J
200V
30V
Heater
GND
11V
28V
EHT
FOCUS
SCR
GND
Heater
Cut OFF
To CPT
To CPT P.W.B.
To CPT
To CPT
FOCUS
L711
C714 2200P/1K
C715 2200P/2KV
C716 680P/1KV
D710 RS3F
D711 RS3F
C717 330P/1K
C718 0.01/1.8KV
L712
** ONLY 32UX8B
L713 1mH
D712 RU3AM
C723 3.3/100 B.P
C721 0.015/630 PP-K
C720 0.27/200 PP-K
C719 0.33/200 PP-K
H.LIN COIL L714
R712 270 RD1/4J
C724 1000P CK-K
C728 100/160 CE-M
R720 FML-G12G
TRS
C731 390P/500 CK-K
C730 1000/16 CE-M
+B
R713 0.22 (1W)
C725 4.7/25 CE-M
R714 8.2K RD1/8J
EXCEPT FOR 32UX8B
T702
Q713 2SA778A
SHASSIS METAL
R715 680K RD1/8J
C741 0.1
C726 1000P/AC250
R720 3.3K RS2J
R719 3.9K RS2J
R721 1.8K RD1/8J
C727 0.0022 MYL-K
Q714 2SC1983 (O/Y)
R767 22 RD1/8J
R718 2.7K RD1/2J
C757 2.2/50 CE-M
R716 68K RD1/8J
***
DF P.W.B.
XDF
F.BLOCK
X1
PDF
TDF1
CDF3 1200P/2KV
RDF1 5.6K RD1/8J
CDF1 0.33/200V
CDF2 1000P/2K
RDF2 56K RD1/8J
PDF2
EDF2
*** Except for 32UX8B
DEFLECTION PART
+B
GND
Protect
To Power P.W.B
HP1
HP2
EDF
PH2
PN1
H.DY
PH
D
E

3

4

5

6

- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.
- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.

it No.	Pin No.	DC Voltage Vdc
A73	B	0
	C	9
	E	0
C01	B	4.6
	C	9
	E	3.9
C02	B	3.9
	C	9
	E	3.2
C03	B	0
	C	9
	E	0.1
C04	B	5
	C	0
	E	0
C05	B	2.6
	C	9
	E	1.9
F01	B	11.6
	C	617.8
	E	11.1
F02	B	5.9
	C	10.8
	E	5.6

Circuit No.	Pin No.	DC Voltage Vdc
QF03	B	2.5
	C	4.7
	E	1.9
QM01	B	0.7
	C	0.1
	E	0
QM02	B	0
	C	1.6
	E	9.1
QS01	B	4.4
	C	9.4
	E	3.7
QS02	B	4.4
	C	9.4
	E	3.7
QS03	B	0
	C	4.2
	E	0
QS04	B	0
	C	9.2
	E	0
QS05	B	0.3
	C	0
	E	0

Circuit No.	Pin No.	DC Voltage Vdc
QS06	B	0.2
	C	0
	E	0
QS07	B	0.3
	C	0
	E	0
QS08	B	0.6
	C	0
	E	0
QSN1	B	21.2
	C	21.29
	E	20.57
QSN2	B	0.8
	C	0.2
	E	0
QSN3	B	20.5
	C	21.2
	E	21.2
QT01	B	5.8
	C	8
	E	5.1
QT02	B	5.8
	C	8
	E	5.1

Circuit No.	Pin No.	DC Voltage Vdc
QT03	B	4.1
	C	5.8
	E	3.4
QT04	B	4
	C	8
	E	3.4
QT05	B	2.2
	C	3.4
	E	1.5
QT06	B	4.1
	C	5.8
	E	3.5
QT07	B	4
	C	8
	E	3.5
QT08	B	2.2
	C	3.5
	E	1.5
QV01	B	0
	C	15.58
	E	2.43
QV02	B	1.22
	C	13.12
	E	0.55

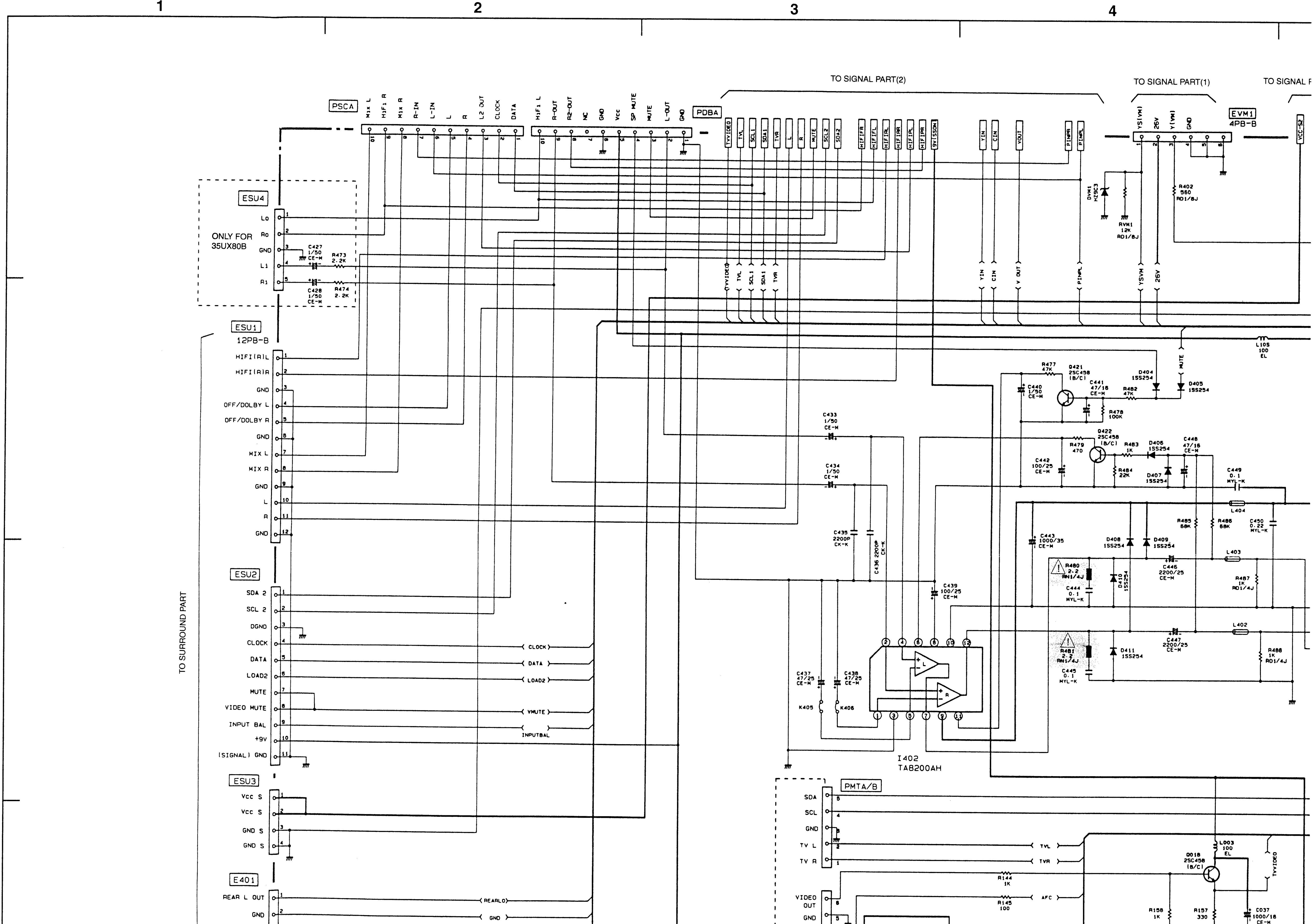
Circuit No.	Pin No.	DC Voltage Vdc
QV03	B	2.05
	C	9.47
	E	1.35
QV04	B	9.47
	C	15.56
	E	8.8
QV05	B	2.46
	C	5.27
	E	1.77
QV06	B	1.3
	C	8.34
	E	0.59
QV07	B	8.35
	C	15.55
	E	8.47
QV08	B	8.35
	C	0
	E	8.43
QV09	B	124.4
	C	53.5
	E	123.84
QV10	B	0
	C	55
	E	0.8

Circuit No.	Pin No.	DC Voltage Vdc
QV11	B	0
	C	0.2
	E	0
QV12	B	1.96
	C	15.52
	E	1.3
QX01	B	6.4
	C	9.1
	E	5.5
QX02	B	4.3
	C	9.1
	E	3.6
QX04	B	3.5
	C	9.1
	E	2.8
QX05	B	4.3
	C	9
	E	3.6
QX06	B	2.1
	C	8.4
	E	1.4
QX07	B	8.4
	C	5.4
	E	9

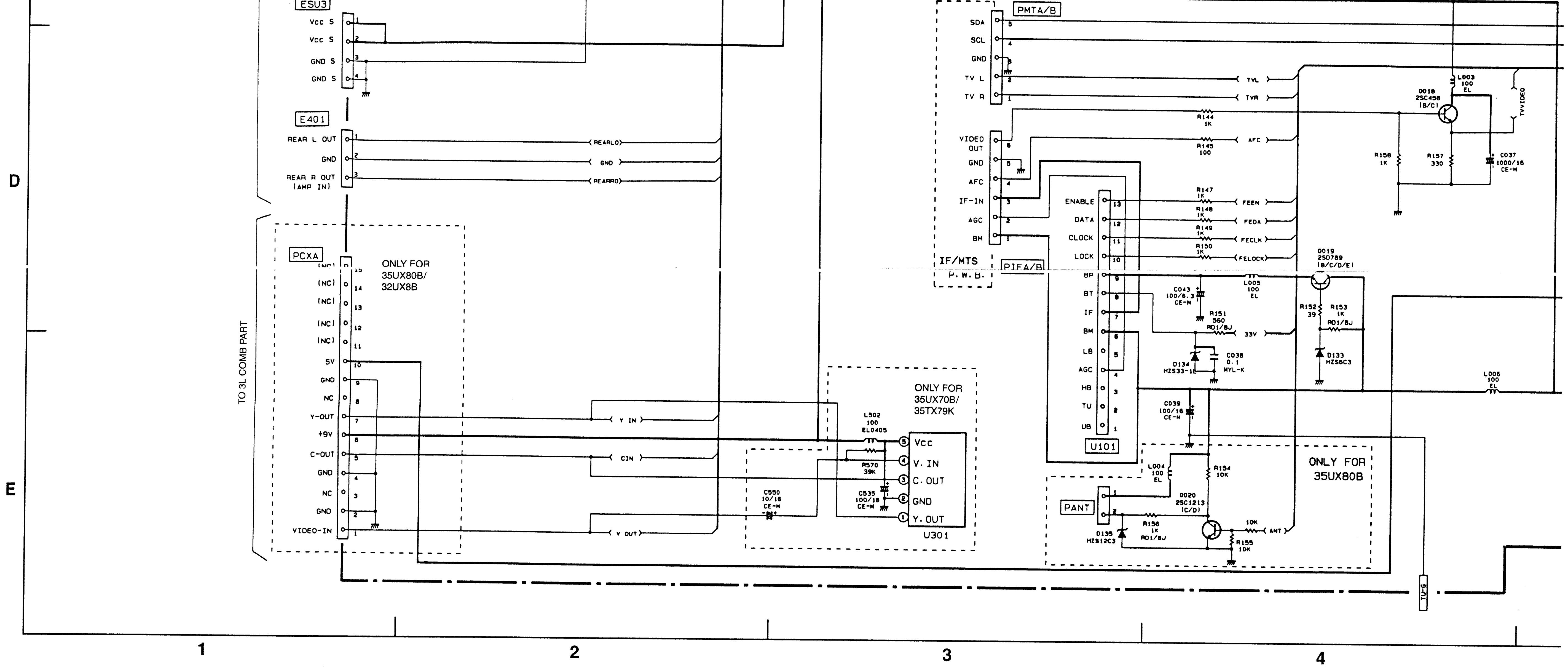
Circuit No.	Pin No.	DC Voltage Vdc
QX08	B	4.5
	C	9
	E	3.8
QX09	B	1.8
	C	8.4
	E	1.2
QX10	B	4.4
	C	9
	E	3.7
QX11	B	8.4
	C	4.5
	E	9
QX12	B	5.4
	C	9
	E	4.7
QY07	B	4.6
	C	9
	E	4
QY08	B	4.6
	C	9
	E	3.9

CIRCUIT SCHEMATIC DIAGRAM OF 35UX80B/CZ58, 35UX70B/CZ57, 35UX70BA/CZ57P, 35TX79K/CZ56, 32UX8B/CY58

PROD
any of
throug



1
2
3
4
A
B
C
TO SIGNAL PART(2)
TO SIGNAL PART(1)
TO SIGNAL P
PSCA
Mix L
HiFi R
Mix R
R-IN
L-IN
L
R
L2 OUT
CLOCK
DATA
HiFi L
R-OUT
R2-OUT
NC
GND
Vcc
SP MUTE
MUTE
L-OUT
GND
PDBA
TVVIDEO
TVL
SCL1
SDA1
TVR
L
R
MUTE
SCL2
SDA2
HIFIFR
HIFIFL
HIFIRL
HIFIRR
HIFIPL
HIFIPR
9V(SSON)
YIN
CIN
VOUT
PINPR
PINPL
V OUT
YS(VM)
26V
Y(VM)
GND
YSVM
EVM1
4PB-B
VCC-S2
DVM1
HZ9C3
RVM1
12K
RD1/8J
R402
560
RD1/8J
ESU4
ONLY FOR 35UX80B
Lo
Ro
GND
Li
Ri
C427
1/50
CE-M
R473
2.2K
C428
1/50
CE-M
R474
2.2K
ESU1
12PB-B
HIFI(R)L
HIFI(R)R
GND
OFF/DOLBY L
OFF/DOLBY R
GND
MIX L
MIX R
GND
L
R
GND
ESU2
SDA 2
SCL 2
DGND
CLOCK
DATA
LOAD2
MUTE
VIDEO MUTE
INPUT BAL
+9V
(SIGNAL) GND
VMUTE
INPUTBAL
ESU3
Vcc S
Vcc S
GND S
GND S
E401
REAR L OUT
GND
REARLO
TO SURROUND PART
L105
100
EL
R477
47K
Q421
2SC458
(B/C)
C440
1/50
CE-M
C441
47/16
CE-M
R482
47K
D404
1SS254
D405
1SS254
R478
100K
C433
1/50
CE-M
C434
1/50
CE-M
Q422
2SC458
(B/C)
R479
470
R483
1K
D406
1SS254
C448
47/16
CE-M
C442
100/25
CE-M
R484
22K
D407
1SS254
C449
0.1
MYL-K
L404
R485
68K
R486
68K
C450
0.22
MYL-K
C443
1000/35
CE-M
D408
1SS254
D409
1SS254
L403
C435
2200P
CK-K
C436 2200P
CK-K
R480
2.2
RN1/4J
C444
0.1
MYL-K
D410
1SS254
C446
2200/25
CE-M
R487
1K
RD1/4J
C439
100/25
CE-M
L402
R481
2.2
RN1/4J
C445
0.1
MYL-K
D411
1SS254
C447
2200/25
CE-M
R488
1K
RD1/4J
C437
47/25
CE-M
C438
47/25
CE-M
K405
K406
I402
TA8200AH
PMTA/B
SDA
SCL
GND
TV L
TV R
VIDEO OUT
GND
R144
1K
R145
100
AFC
L003
100
EL
Q018
2SC458
(B/C)
R158
1K
R157
330
C037
1000/16
CE-M


ESU3
VCC S
GND S
E401
REAR L OUT
GND
REAR R OUT (AMP IN)
REARLO
REARRO
PCXA
ONLY FOR 35UX80B/ 32UX8B
(NC)
5V
NC
Y-OUT
+9V
C-OUT
VIDEO-IN
TO 3L COMB PART
Y IN
CIN
V OUT
ONLY FOR 35UX70B/ 35TX79K
L502 100 EL0405
R570 39K
C535 100/16 CE-M
C550 10/16 CE-M
VCC
V. IN
C. OUT
GND
Y. OUT
U301
PMTA/B
SDA
SCL
TV L
TV R
TVL
TVR
VIDEO OUT
AFC
IF-IN
AGC
BM
IF/MTS P. W. B.
PIFA/B
R144 1K
R145 100
R147 1K
R148 1K
R149 1K
R150 1K
ENABLE
DATA
CLOCK
LOCK
FEEN
FEDA
FECLK
FELOCK
BP
BT
IF
LB
HB
TU
UB
U101
C043 100/6.3 CE-M
R151 560 RD1/8J
33V
D134 HZS33-1L
C038 0.1 MYL-K
C039 100/16 CE-M
L005 100 EL
Q019 2SD789 (B/C/D/E)
R152 39
R153 1K RD1/8J
D133 HZS6C3
Q018 2SC458 (B/C)
L003 100 EL
TVVIDEO
R158 1K
R157 330
C037 1000/16 CE-M
L006 100 EL
ONLY FOR 35UX80B
PANT
L004 100 EL
R154 10K
Q020 2SC1213 (C/D)
R156 1K RD1/8J
D135 HZS12C3
10K
ANT
R155 10K
TU-6
D
E
1
2
3
4

Circuit No.	Pin No.	DC Voltage Vdc
IX02	1	3.7
	2	0.8
	3	2.6
	4	3.5
	5	0
	6	0
	7	2.5
	8	0
	9	3.6
	10	5.1
	11	5.1
	12	3.5
	13	2.1
	14	3.3
	15	0.8
	16	2.8

Circuit No.	Pin No.	DC Voltage Vdc
IY01	1	4.7
	2	4.7
	3	4.7
	4	4.7
	5	4.7
	6	2.5
	7	4.7
	8	4.7
	9	4.7
	10	4.7
	11	4.7
	12	2.5
	13	4.7
	14	4.7
	15	4.7
	16	4.7
	17	4.7
	18	4.3
	19	5.1
	20	5.1
	21	0
	22	4.8
	23	4.6
	24	4.8
	25	4.7

Circuit No.	Pin No.	DC Voltage Vdc
IY01	26	4.8
	27	4.7
	28	4.8
	29	4.7
	30	4.7
	31	4.7
	32	4.7
	33	4.7
	34	0
	35	4.7
	36	0
	37	4.7
	38	4.8
	39	4.8
	40	4.6
	41	4.7
	42	4.7
	43	4.6
	44	9
	45	4.6
	46	4.7
	47	4.7
	48	4.7

Circuit No.	Pin No.	DC Voltage Vdc
Q001	B	0
	C	5
	E	0
Q002	B	0.54
	C	2.68
	E	0.2
Q003	B	0.54
	C	2.14
	E	0.2
Q004	B	0.74
	C	0.1
	E	0
Q005	B	0
	C	4.37
	E	0
Q006	B	0.66
	C	0.1
	E	0
Q007	B	5.83
	C	0.8
	E	5.32
Q008	B	0
	C	4.9
	E	0

Circuit No.	Pin No.	DC Voltage Vdc
Q009	B	0
	C	5.9
	E	0
Q011	B	0
	C	4.9
	E	0
Q012	B	0
	C	4.9
	E	0
Q013	B	0
	C	4.9
	E	0
Q014	B	0
	C	4.93
	E	0
Q015	B	5.71
	C	9.81
	E	4.9
Q018	B	12.4
	C	0
	E	12.4
Q019	B	0
	C	12.3
	E	0

Circuit No.	Pin No.	DC Voltage Vdc
Q020	B	0
	C	5.2
	E	0
Q021	B	4.12
	C	9.32
	E	3.43
Q023	B	0.6
	C	0.2
	E	0
Q024	B	0
	C	9.81
	E	0
Q0501	B	0.8
	C	0.1
	E	0.1
Q0502	B	-
	C	9.2
	E	1
Q301	B	0
	C	9
	E	0
Q302	B	0
	C	9.1
	E	0

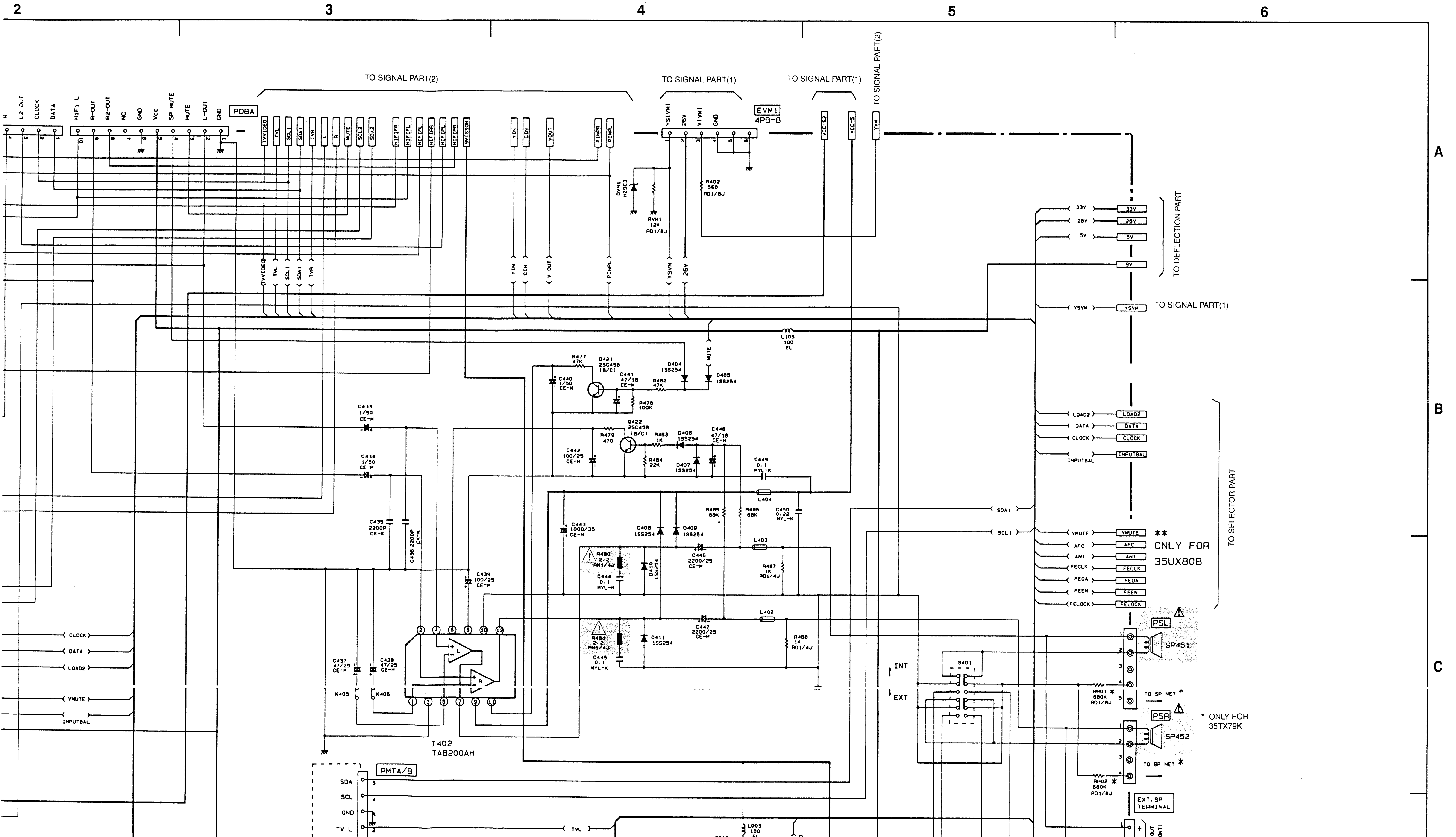
Circuit No.	Pin No.	DC Voltage Vdc
Q303	B	1
	C	4.2
	E	0.5
Q304	B	6.6
	C	9.1
	E	6
Q305	B	8.1
	C	9.1
	E	7.4
Q306	B	4.4
	C	9.1
	E	3.8
Q307	B	8.1
	C	4.8
	E	0
Q308	B	8.1
	C	0
	E	0
Q309	B	0.7
	C	0
	E	0
Q312	B	4.6
	C	0
	E	5.2

Circuit No.	Pin No.	DC Voltage Vdc
Q313	B	4.7
	C	9
	E	4
Q314	B	6
	C	9.1
	E	5.3
Q315	B	5.3
	C	0
	E	5.2
Q316	B	-0.2
	C	6.4
	E	0
Q317	B	5.2
	C	9.1
	E	4.6
Q3801	B	3.8
	C	12
	E	3.2
Q3802	B	3.6
	C	12
	E	3.2
Q3N1	B	5.6
	C	9.1
	E	4.9

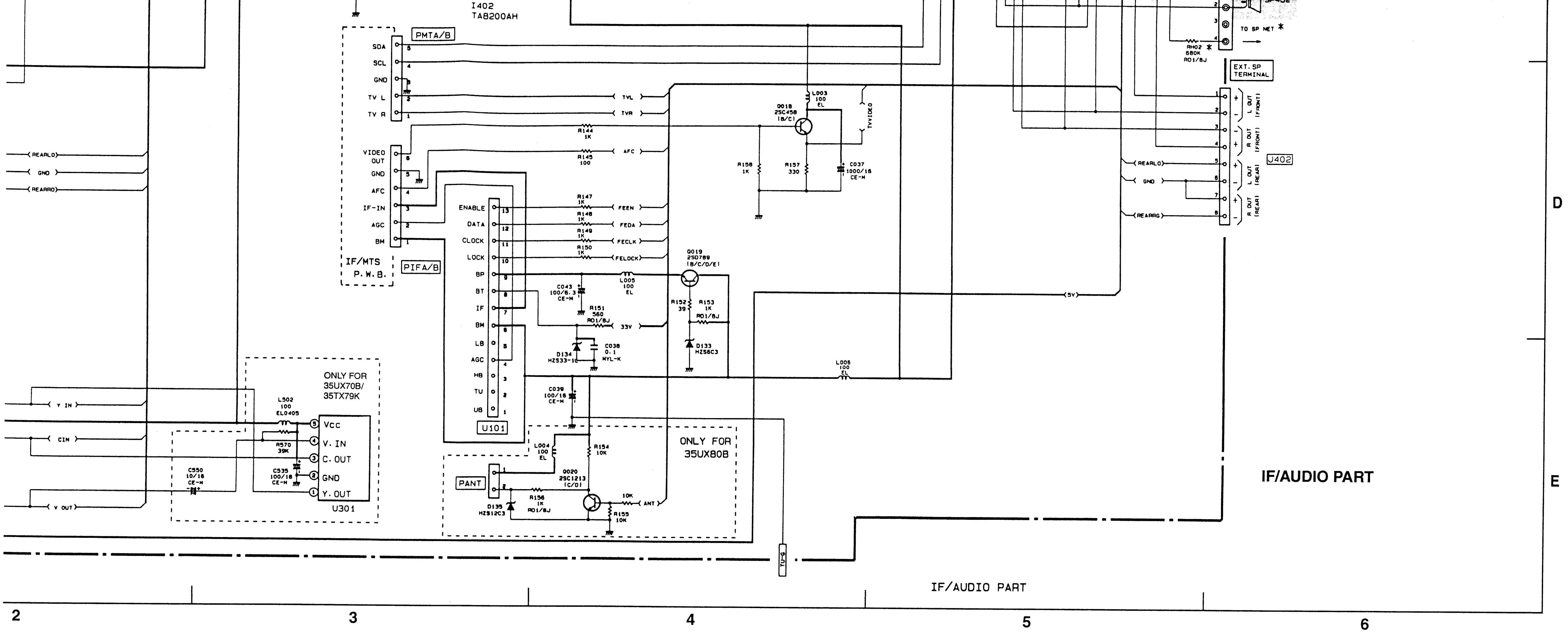
Circuit No.
Q401
Q402
Q419
Q420
Q421
Q422
Q504
Q505

CIRCUIT SCHEMATIC DIAGRAM OF 35UX80B/CZ58, 35UX70B/CZ57, 35UX70BA/CZ57P, 35TX79K/CZ56, 32UX8B/CY58

PRODUCT SAFETY NOTE: Components marked with a ⚠ and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.



2
3
4
5
6
A
B
C
TO SIGNAL PART(2)
TO SIGNAL PART(1)
TO SIGNAL PART(1)
TO SIGNAL PART(2)
PDBA
H
L2 OUT
CLOCK
DATA
HiFi L
R-OUT
R2-OUT
NC
GND
Vcc
SP MUTE
MUTE
L-OUT
GND
TVVIDEO
TVL
SCL1
SDA1
TVR
L
R
MUTE
SCL2
SDA2
HIFIFR
HIFIFL
HIFIRL
HIFIRR
HIFIPR
9V(SSON)
YIN
CIN
VOUT
PINPR
PINPL
YS(VM)
26V
Y(VM)
GND
EVM1
4P8-B
VCC-S2
VCC-S
YVM
DVM1
HZ9C3
RVM1
12K
RD1/8J
R402
560
RD1/8J
YSVM
V OUT
33V
26V
5V
9V
TO DEFLECTION PART
YSVM
TO SIGNAL PART(1)
L105
100
EL
MUTE
R477
47K
Q421
2SC458
(B/C)
C441
47/16
CE-M
D404
1SS254
D405
1SS254
C440
1/50
CE-M
R482
47K
R478
100K
Q422
2SC458
(B/C)
R479
470
R483
1K
D406
1SS254
C448
47/16
CE-M
C442
100/25
CE-M
R484
22K
D407
1SS254
C449
0.1
MYL-K
C433
1/50
CE-M
C434
1/50
CE-M
C435
2200P
CK-K
C436 2200P
CK-K
L404
C443
1000/35
CE-M
R485
68K
R486
68K
C450
0.22
MYL-K
D408
1SS254
D409
1SS254
L403
⚠ R480
2.2
RN1/4J
C444
0.1
MYL-K
D410
1SS254
C446
2200/25
CE-M
R487
1K
RD1/4J
C439
100/25
CE-M
L402
C447
2200/25
CE-M
⚠ R481
2.2
RN1/4J
D411
1SS254
R488
1K
RD1/4J
C445
0.1
MYL-K
C437
47/25
CE-M
C438
47/25
CE-M
K405
K406
I402
TA8200AH
L
R
CLOCK
DATA
LOAD2
VMUTE
INPUTBAL
PMTA/B
SDA
SCL
GND
TV L
TVL
L003
100
SDA1
SCL1
LOAD2
DATA
CLOCK
INPUTBAL
VMUTE
AFC
ANT
FECLK
FEDA
FEEN
FELOCK
**
ONLY FOR
35UX80B
TO SELECTOR PART
PSL ⚠
SP451
INT
EXT
S401
RH01 *
680K
RD1/8J
TO SP NET *
PSR ⚠
SP452
* ONLY FOR
35TX79K
RH02 *
680K
RD1/8J
TO SP NET *
EXT.SP
TERMINAL


I402
TA8200AH
PMTA/B
SDA
SCL
GND
TV L
TV R
TVL
TVR
R144 1K
VIDEO OUT
GND
AFC
IF-IN
AGC
BM
R145 100
AFC
IF/MTS P.W.B.
PIFA/B
ENABLE
DATA
CLOCK
LOCK
BP
BT
IF
BM
LB
AGC
HB
TU
UB
U101
R147 1K
R148 1K
R149 1K
R150 1K
FEEN
FEDA
FECLK
FELOCK
L003 100 EL
Q018 2SC458 (B/C)
TVVIDEO
R156 1K
R157 330
C037 1000/16 CE-M
Q019 2SD789 (B/C/D/E)
L005 100 EL
C043 100/6.3 CE-M
R151 560 RO1/8J
33V
R152 39
R153 1K RO1/8J
D133 HZS6C3
D134 HZS33-1
C038 0.1 MYL-K
L006 100 EL
C039 100/16 CE-M
5V
REARLO
GND
REARRO
Y IN
CIN
V OUT
ONLY FOR 35UX70B/ 35TX79K
L502 100 EL0405
R570 39K
C535 100/16 CE-M
C550 10/16 CE-M
Vcc
V. IN
C. OUT
GND
Y. OUT
U301
L004 100 EL
R154 10K
ONLY FOR 35UX80B
PANT
Q020 2SC1213 (C/D)
R156 1K RO1/8J
D135 HZS12C3
10K
ANT
R155 10K
TU-G
IF/AUDIO PART
TO SP NET *
RH02 * 680K RO1/8J
EXT. SP TERMINAL
L OUT (FRONT)
R OUT (FRONT)
L OUT (REAR)
R OUT (REAR)
J402
REARLO
GND
REARRG
IF/AUDIO PART
D
E
2
3
4
5
6

- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.
- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.

Voltage Vdc
4.8
4.7
4.8
4.7
4.7
4.7
4.7
4.7
0
4.7
0
4.7
4.8
4.8
4.6
4.7
4.7
4.6
9
4.6
4.7
4.7
4.7

Circuit No.	Pin No.	DC Voltage Vdc
Q001	B	0
	C	5
	E	0
Q002	B	0.54
	C	2.68
	E	0.2
Q003	B	0.54
	C	2.14
	E	0.2
Q004	B	0.74
	C	0.1
	E	0
Q005	B	0
	C	4.37
	E	0
Q006	B	0.66
	C	0.1
	E	0
Q007	B	5.83
	C	0.8
	E	5.32
Q008	B	0
	C	4.9
	E	0

Circuit No.	Pin No.	DC Voltage Vdc
Q009	B	0
	C	5.9
	E	0
Q011	B	0
	C	4.9
	E	0
Q012	B	0
	C	4.9
	E	0
Q013	B	0
	C	4.9
	E	0
Q014	B	0
	C	4.93
	E	0
Q015	B	5.71
	C	9.81
	E	4.9
Q018	B	12.4
	C	0
	E	12.4
Q019	B	0
	C	12.3
	E	0

Circuit No.	Pin No.	DC Voltage Vdc
Q020	B	0
	C	5.2
	E	0
Q021	B	4.12
	C	9.32
	E	3.43
Q023	B	0.6
	C	0.2
	E	0
Q024	B	0
	C	9.81
	E	0
Q0501	B	0.8
	C	0.1
	E	0.1
Q0502	B	-
	C	9.2
	E	1
Q301	B	0
	C	9
	E	0
Q302	B	0
	C	9.1
	E	0

Circuit No.	Pin No.	DC Voltage Vdc
Q303	B	1
	C	4.2
	E	0.5
Q304	B	6.6
	C	9.1
	E	6
Q305	B	8.1
	C	9.1
	E	7.4
Q306	B	4.4
	C	9.1
	E	3.8
Q307	B	8.1
	C	4.8
	E	0
Q308	B	8.1
	C	0
	E	0
Q309	B	0.7
	C	0
	E	0
Q312	B	4.6
	C	0
	E	5.2

Circuit No.	Pin No.	DC Voltage Vdc
Q313	B	4.7
	C	9
	E	4
Q314	B	6
	C	9.1
	E	5.3
Q315	B	5.3
	C	0
	E	5.2
Q316	B	-0.2
	C	6.4
	E	0
Q317	B	5.2
	C	9.1
	E	4.6
Q3801	B	3.8
	C	12
	E	3.2
Q3802	B	3.6
	C	12
	E	3.2
Q3N1	B	5.6
	C	9.1
	E	4.9

Circuit No.	Pin No.	DC Voltage Vdc
Q401	B	2
	C	3.1
	E	4.5
Q402	B	0.2
	C	3.2
	E	4.5
Q419	B	0.2
	C	0
	E	0
Q420	B	0.2
	C	0
	E	0
Q421	B	0
	C	4.1
	E	0
Q422	B	0
	C	9.1
	E	0
Q504	B	0.7
	C	0
	E	0
Q505	B	9
	C	4.2
	E	9.1

Circuit No.	Pin No.	DC Voltage Vdc
Q506	B	8.8
	C	9.1
	E	8.1
Q507	B	0
	C	6.55
	E	0
Q610	B	15.4
	C	0
	E	15.7
Q6H0	B	6.21
	C	10
	E	5.51
Q710	B	0.3
	C	15.37
	E	0
Q711	B	0.1
	C	139.76
	E	0.06
Q713	B	132
	C	0
	E	132
Q714	B	0.45
	C	21.7
	E	0.05

Circuit No.	Pin No.	DC Voltage Vdc
Q720	B	9.94
	C	12.25
	E	9.31
Q721	B	9.28
	C	0
	E	8.32
Q7H0	B	26.96
	C	0.5
	E	27.4
Q7H1	B	1.32
	C	15.15
	E	0.715
Q811	B	5.7
	C	5
	E	5.1
Q812	B	4.5
	C	4.82
	E	5.2
Q851	B	12.1
	C	167.9
	E	11.8
Q852	B	5.9
	C	11.4
	E	5.5

Circuit No.	Pin No.	DC Voltage Vdc
Q853	B	4.5
	C	2.37
	E	5.2
Q854	B	12.2
	C	163
	E	11.8
Q855	B	6
	C	11.3
	E	5.6
Q856	B	4.5
	C	0
	E	5.2
Q857	B	12.2
	C	157
	E	11.8
Q858	B	6
	C	11.3
	E	5.7
Q859	B	4.5
	C	0
	E	5.1
Q901	G	134
	D	327.3
	S	130

CIRCUIT SCHEMATIC DIAGRAM OF 35UX80B/CZ58, 35UX70B/CZ57, 35TX79K/CZ56, 32UX8B/CY58

PROD
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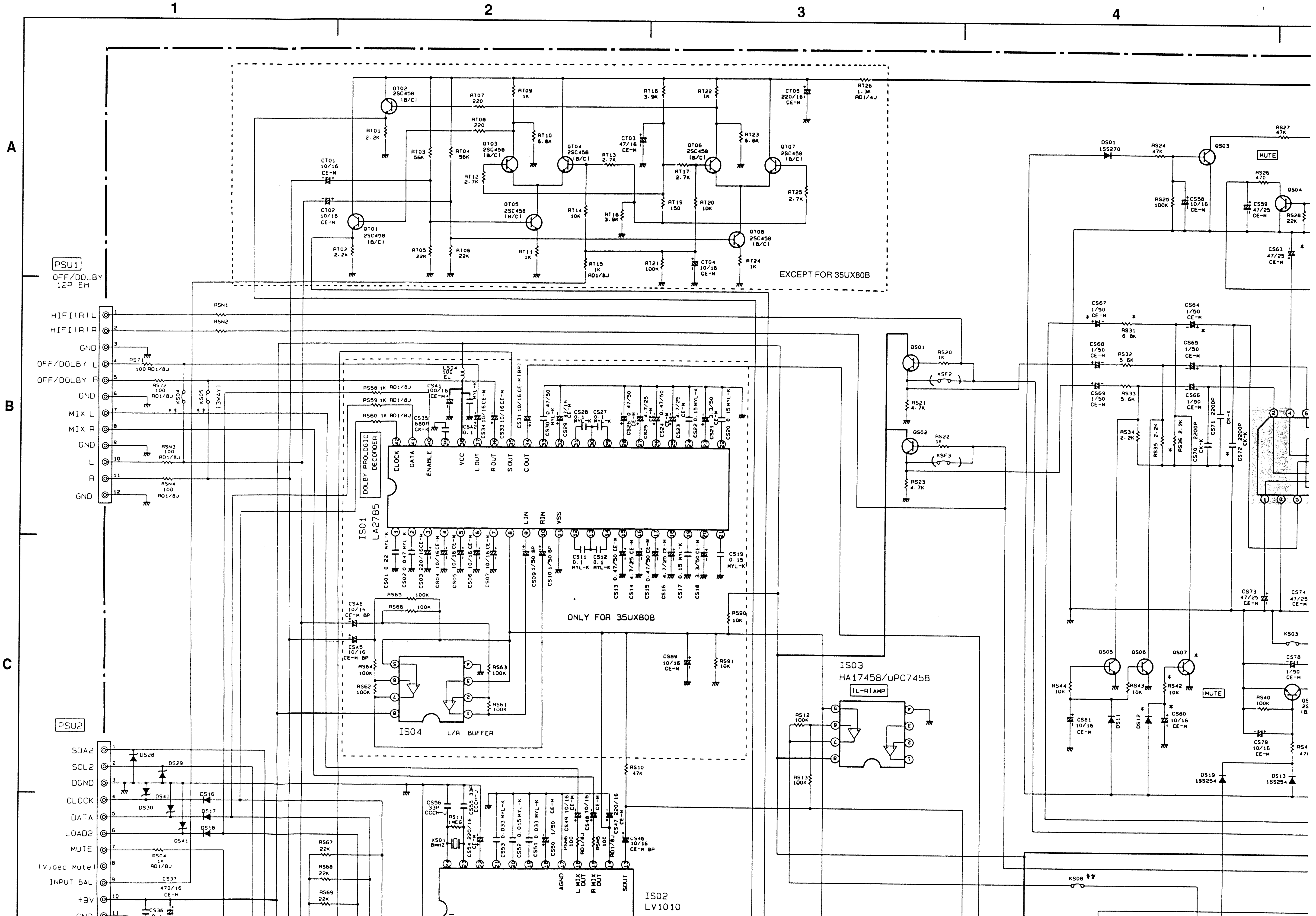
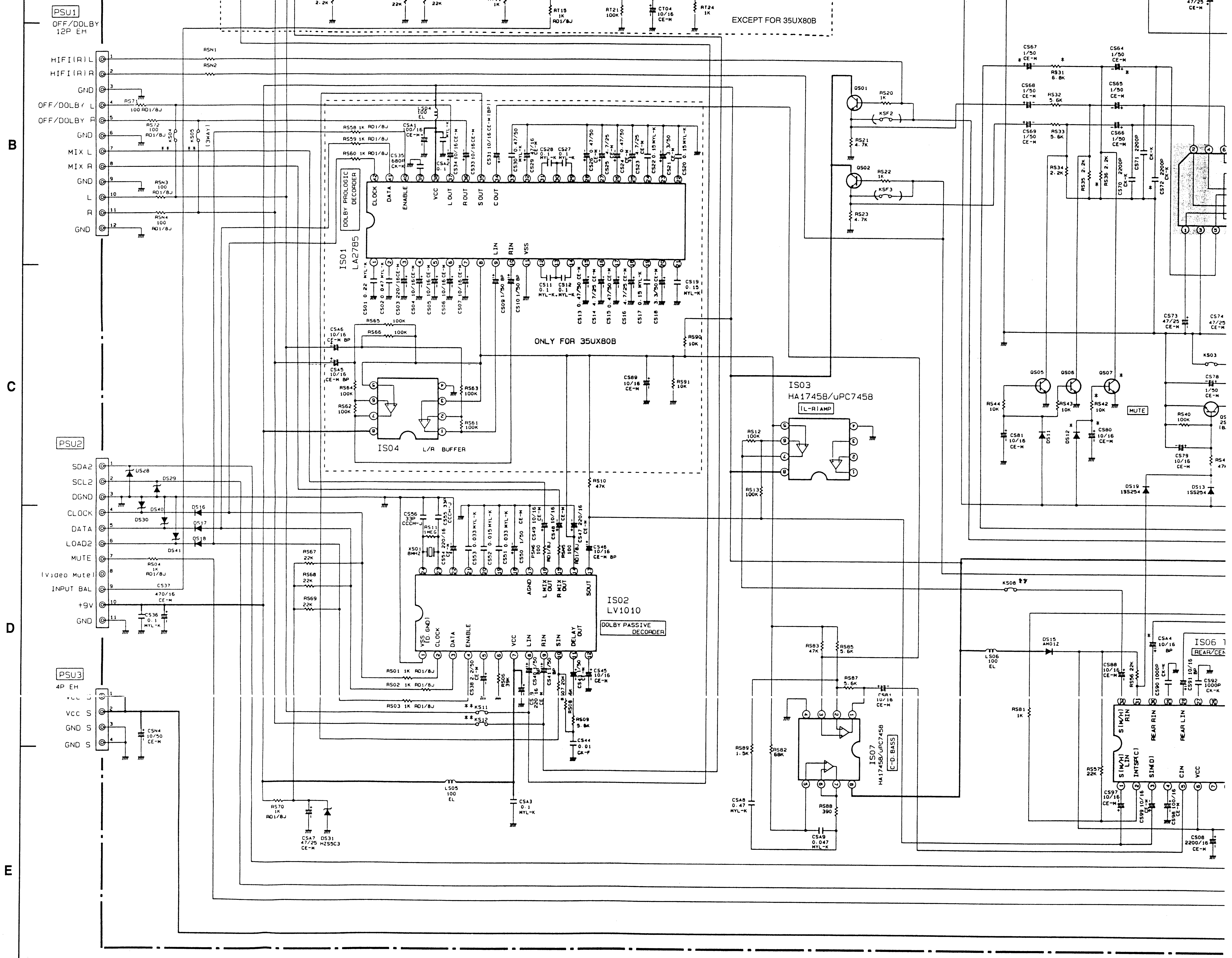
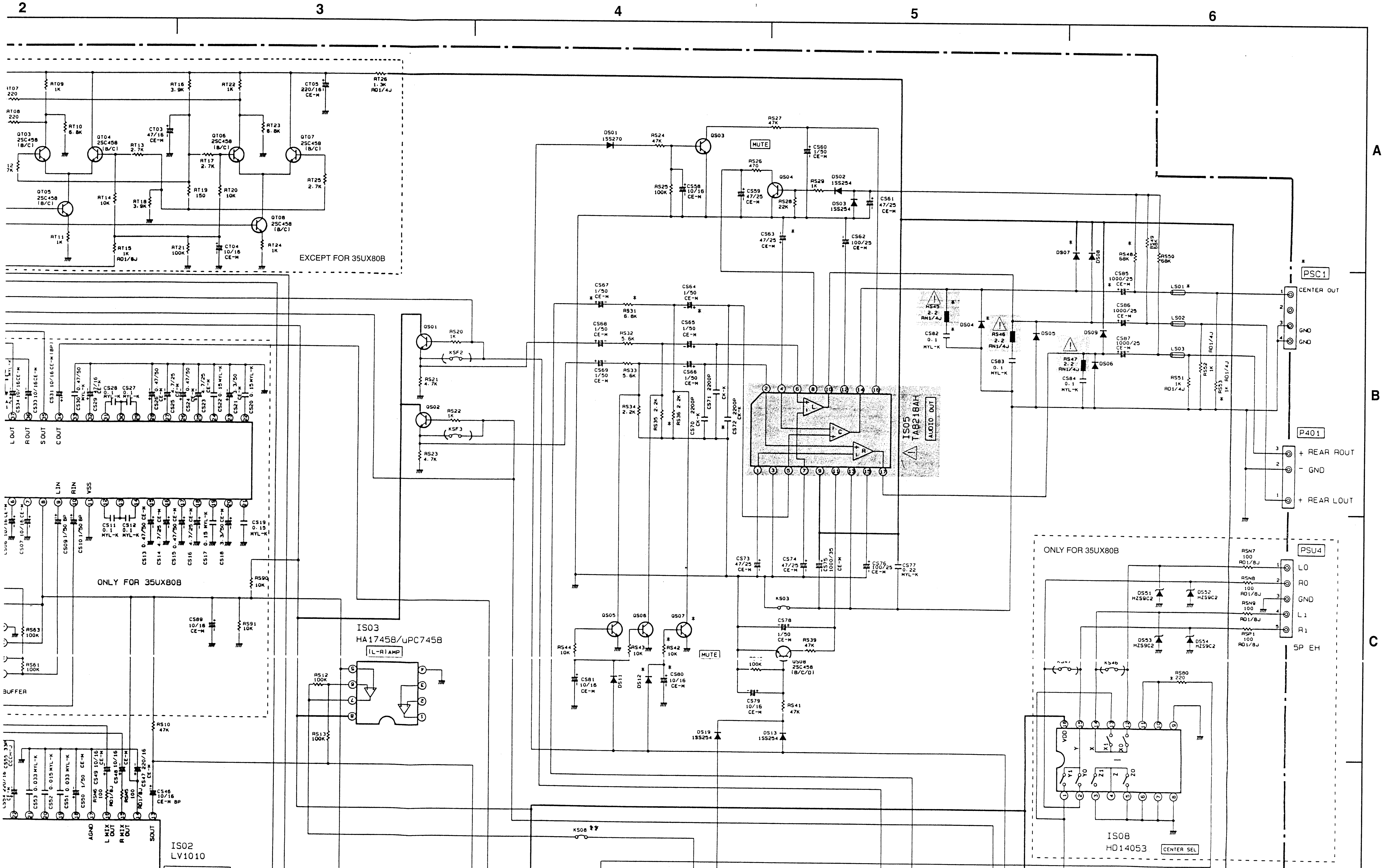
throug


1
2
3
4
A
B
C
EXCEPT FOR 35UX80B
ONLY FOR 35UX80B
PSU1
OFF/DOLBY
12P EH
HIFI(R)L
HIFI(R)R
GND
OFF/DOLBY L
OFF/DOLBY R
GND
MIX L
MIX R
GND
L
R
GND
PSU2
SDA2
SCL2
DGND
CLOCK
DATA
LOAD2
MUTE
(video Mute)
INPUT BAL
+9V
QT01 2SC458 (B/C)
QT02 2SC458 (B/C)
QT03 2SC458 (B/C)
QT04 2SC458 (B/C)
QT05 2SC458 (B/C)
QT06 2SC458 (B/C)
QT07 2SC458 (B/C)
QT08 2SC458 (B/C)
CT01 10/16 CE-M
CT02 10/16 CE-M
CT03 47/16 CE-M
CT04 10/16 CE-M
CT05 220/16 CE-M
RT26 1.3K R01/4J
IS01 LA2785
DOLBY PROLOGIC DECORDER
CLOCK
DATA
ENABLE
VCC
L OUT
R OUT
S OUT
C OUT
LIN
RIN
VSS
IS04 L/R BUFFER
IS03 HA17458/uPC7458
(L-R)AMP
IS02 LV1010
AGND
L MIX OUT
R MIX OUT
SOUT
XS01 8MHZ
QS01
QS02
QS03
QS04
QS05
QS06
QS07
KSF2
KSF3
DS01 1SS270
DS13 1SS254
DS19 1SS254
MUTE
KS03
KS04
KS05 (3WAY)
KS08

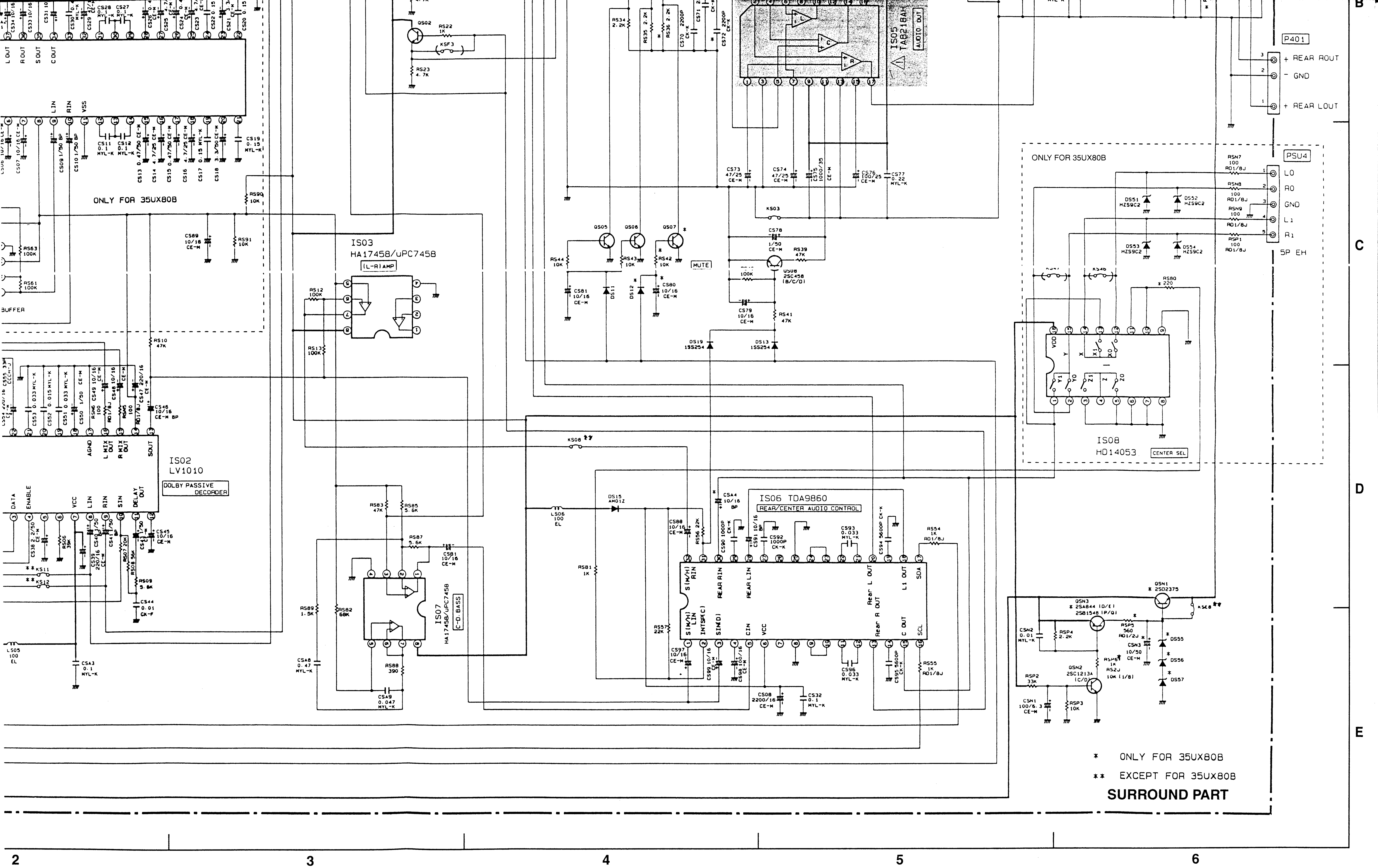

B
C
D
E
PSU1
OFF/DOLBY
12P EH
HIFI(R)L
HIFI(R)R
GND
OFF/DOLBY L
OFF/DOLBY R
GND
MIX L
MIX R
GND
L
R
GND
RSN1
RSN2
RS71 100 RO1/8J
RS72 100 RO1/8J
KS04
KS05
(3WAY)
RSN3 100 RO1/8J
RSN4 100 RO1/8J
EXCEPT FOR 35UX80B
RT15 1K RO1/8J
RT21 100K
CT04 10/16 CE-M
RT24 1K
ONLY FOR 35UX80B
IS01
LA2785
DOLBY PROLOGIC DECORDER
CLOCK
DATA
ENABLE
VCC
L OUT
R OUT
S OUT
C OUT
LIN
RIN
VSS
RS58 1K RO1/8J
RS59 1K RO1/8J
RS60 1K RO1/8J
LS04 100 EL
CS41 100/16 CE-M
CS35 680P CK-K
CS42 0.1
CS31 10/16 CE-M(BP)
CS28 0.1 MYL-K
CS27 0.1 MYL-K
CS19 0.15 MYL-K
CS11 0.1 MYL-K
CS12 0.1 MYL-K
CS09 1/50 BP
CS10 1/50 BP
RS65 100K
RS66 100K
CS46 10/16 CE-M BP
CS45 10/16 CE-M BP
RS64 100K
RS62 100K
RS63 100K
RS61 100K
IS04
L/R BUFFER
RS90 10K
CS89 10/16 CE-M
RS91 10K
PSU2
SDA2
SCL2
DGND
CLOCK
DATA
LOAD2
MUTE
(Video Mute)
INPUT BAL
+9V
GND
DS28
DS29
DS40
DS30
DS16
DS17
DS18
DS41
RS04 1K RO1/8J
CS37 470/16 CE-M
CS36 0.1 MYL-K
RS67 22K
RS68 22K
RS69 22K
CS56 33P CCCH-J
CS55 33P CCCH-J
RS11 1MEG
XS01 8MHZ
CS54 220/16 CE-M
CS53 0.033 MYL-K
CS52 0.015 MYL-K
CS51 0.033 MYL-K
CS50 1/50 CE-M
CS49 10/16 CE-M
CS48 10/16 CE-M
CS47 220/16 CE-M
CS46 10/16 CE-M BP
RS10 47K
IS02
LV1010
DOLBY PASSIVE DECORDER
AGND
L MIX OUT
R MIX OUT
SOUT
VSS (D.GND)
DELAY OUT
SIN
RS01 1K RO1/8J
RS02 1K RO1/8J
RS03 1K RO1/8J
CS38 2.2/50 CE-M
RS06 39K
CS40 1/50
CS41 1/50
RS07 5.6K
RS08 5.6K
RS09 5.6K
CS44 0.01 CK-F
CS45 10/16 CE-M
KS11
KS12
PSU3
4P EH
VCC S
GND S
CSN4 10/50 CE-M
LS05 100 EL
CSA3 0.1 MYL-K
RS70 1K RO1/8J
CSA7 47/25 CE-M
DS31 MZ5C3
QS01
QS02
RS20 1K
RS22 1K
KSF2
KSF3
RS21 4.7K
RS23 4.7K
IS03
HA17458/uPC7458
(L-R)AMP
RS12 100K
RS13 100K
IS07
HA17458/uPC7458
C-D.BASS
RS83 47K
RS85 5.6K
RS87 5.6K
CSA1 10/16 CE-M
RS89 1.5K
RS82 68K
CSA8 0.47 MYL-K
RS88 390
CSA9 0.047 MYL-K
CS67 1/50 CE-M
CS64 1/50 CE-M
RS31 6.8K
CS68 1/50 CE-M
RS32 5.6K
CS65 1/50 CE-M
CS69 1/50 CE-M
RS33 5.6K
CS66 1/50 CE-M
RS34 2.2K
RS35 2.2K
RS36 2.2K
CS70 2200P CK-K
CS71 2200P CK-K
CS72 2200P CK-K
CS73 47/25 CE-M
CS74 47/25 CE-M
KS03
CS78 1/50 CE-M
QS05
QS06
QS07
RS44 10K
RS43 10K
RS42 10K
MUTE
CS81 10/16 CE-M
DS11
DS12
CS80 10/16 CE-M
RS40 100K
CS79 10/16 CE-M
DS19 1SS254
DS13 1SS254
KS08
LS06 100 EL
DS15 AM01Z
RS81 1K
CSA4 10/16 BP
CS88 10/16 CE-M
RS56 22K
CS90 1000P CK-K
CS91 10/16 BP
CS92 1000P CK-K
IS06
REAR/CEN
SIN(H) RIN
REAR RIN
REAR LIN
SIN(H) LIN
INTSF(C)
SIN(D)
CIN
VCC
RS57 22K
CS97 10/16 CE-M
CS98 10/16 CE-M
CS99 10/16 CE-M
CS08 2200/16 CE-M

CIRCUIT SCHEMATIC DIAGRAM OF 35UX80B/CZ58, 35UX70B/CZ57, 35TX79K/CZ56, 32UX8B/CY58

PRODUCT SAFETY NOTE: Components marked with a ⚠ and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.



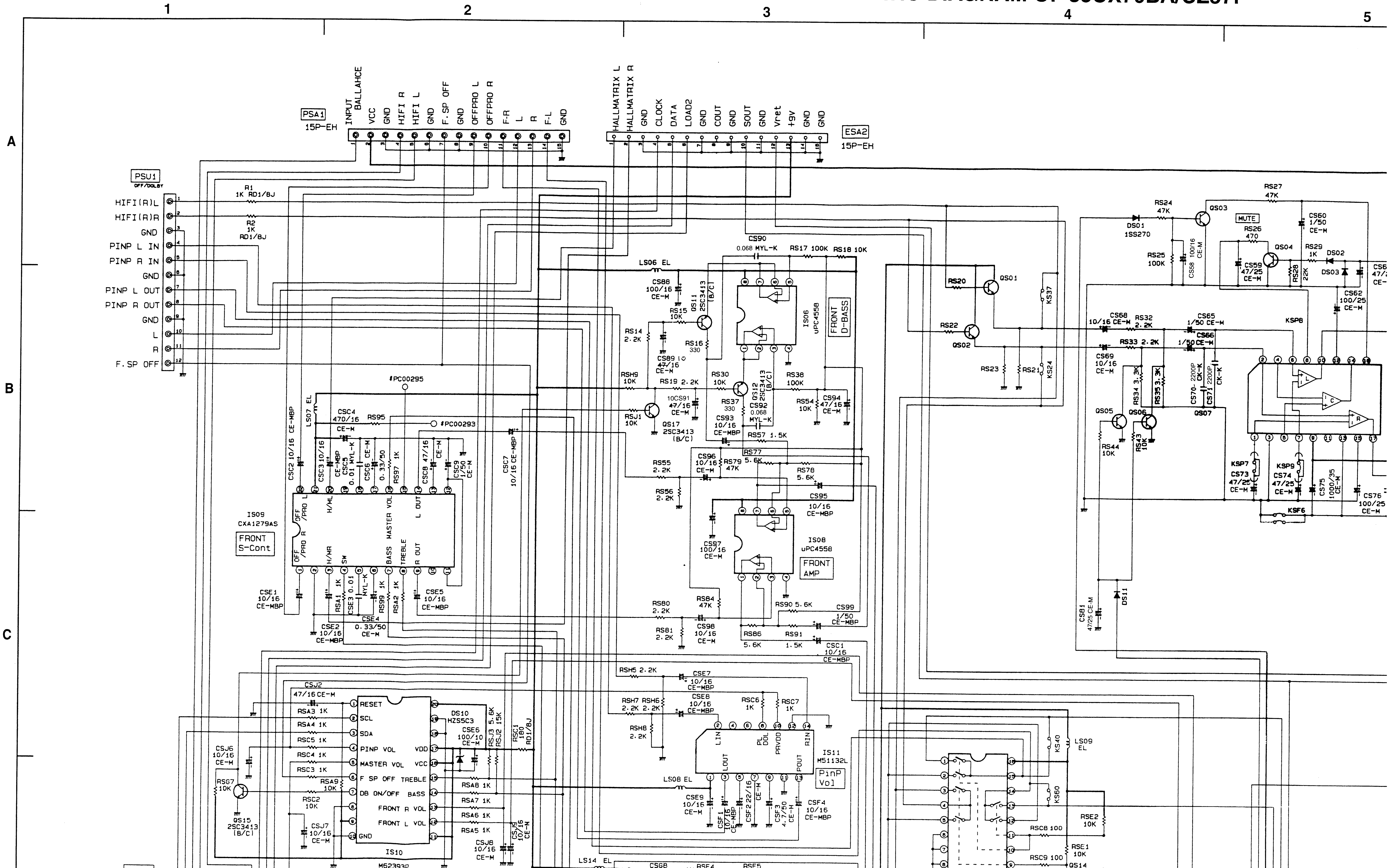
2
3
4
5
6
A
B
C
EXCEPT FOR 35UX80B
QT03 2SC458 (B/C)
QT04 2SC458 (B/C)
QT05 2SC458 (B/C)
QT06 2SC458 (B/C)
QT07 2SC458 (B/C)
QT08 2SC458 (B/C)
CT05 220/16 CE-M
RT26 1.3K RD1/4J
ONLY FOR 35UX80B
L OUT
R OUT
S OUT
C OUT
LIN
RIN
VSS
BUFFER
QS01
QS02
KSF2
KSF3
QS03
QS04
MUTE
DS01 1SS270
DS02 1SS254
DS03 1SS254
IS05 TA8218AH AUDIO OUT
IS03 HA17458/uPC7458
(L-R) AMP
QS05
QS06
QS07
QS08 2SC458 (B/C/D)
KS03
DS19 1SS254
DS13 1SS254
PSC1
CENTER OUT
GND
GND
LS01
LS02
LS03
P401
+ REAR ROUT
- GND
+ REAR LOUT
ONLY FOR 35UX80B
PSU4
LO
RO
GND
LI
RI
5P EH
DS51 HZS9C2
DS52 HZS9C2
DS53 HZS9C2
DS54 HZS9C2
IS08 HD14053
CENTER SEL
IS02 LV1010
AGND
L MIX OUT
R MIX OUT
SOUT
KS08


IS02
LV1010
DOLBY PASSIVE DECORDER
IS03
HA17458/uPC7458
(L-R) AMP
IS05
TA8218AH
AUDIO OUT
IS06 TDA9860
REAR/CENTER AUDIO CONTROL
IS07
HA17458/uPC7458
C-D. BASS
IS08
HD14053
CENTER SEL
QS02
QS05
QS06
QS07
QS08
2SC458 (B/C/D)
MUTE
DS19 1SS254
DS13 1SS254
DS15 AM01Z
DS51 HZS9C2
DS52 HZS9C2
DS53 HZS9C2
DS54 HZS9C2
DS55
DS56
DS57
QSN1 * 2SD2375
QSN3 * 2SA844 (D/E) 2SB1548 (P/Q)
QSN2 2SC1213A (C/D)
P401
+ REAR ROUT
- GND
+ REAR LOUT
PSU4
LO
RO
GND
L1
R1
5P EH
ONLY FOR 35UX80B
ONLY FOR 35UX808
BUFFER
L OUT
R OUT
S OUT
C OUT
LIN
RIN
VSS
AGND
L MIX OUT
R MIX OUT
SOUT
DATA
ENABLE
VCC
LIN
RIN
SIN
DELAY OUT
S(W/H) RIN
REAR RIN
REAR LIN
Rear L OUT
L1 OUT
SDA
S(W/H) LIN
INTSP(C)
SIN(D)
CIN
VCC
Rear R OUT
C OUT
SCL
VDD
Y
X
X1
X0
Y1
Y0
Z1
Z
Z0
KSF3
KS03
KS08 **
KS11 **
KS12 **
KSE8 **
LS05 100 EL
LS06 100 EL
RS22 1K
RS23 4.7K
RS34 2.2K
RS35 2.2K
RS36 2.2K
RS39 47K
RS41 47K
RS42 10K
RS43 10K
RS44 10K
RS12 100K
RS13 100K
RS10 47K
RS90 10K
RS91 10K
RS61 100K
RS63 100K
RS06 39K
RS07 20K
RS08 56K
RS09 5.6K
RS80 * 220
RS81 1K
RS82 68K
RS83 47K
RS85 5.6K
RS87 5.6K
RS88 390
RS89 1.5K
RS54 1K RD1/8J
RS55 1K RD1/8J
RS56 22K
RS57 22K
RSN7 100 RD1/8J
RSN8 100 RD1/8J
RSN9 100 RD1/8J
RSP1 100 RD1/8J
RSP2 33K
RSP3 10K
RSP4 2.2K
RSP5 560 RD1/2J
RS2J 10K (1/8)
CS19 0.15 MYL-K
CS44 0.01 CK-F
CS45 10/16 CE-M
CS46 10/16 CE-M BP
CS73 47/25 CE-M
CS74 47/25 CE-M
CS75 1000/35 CE-M
CS76 100/25 CE-M
CS77 0.22 MYL-K
CS78 1/50 CE-M
CS79 10/16 CE-M
CS80 10/16 CE-M
CS81 10/16 CE-M
CS89 10/16 CE-M
CS70 2200P CK-K
CS72 2200P CK-K
CS81 10/16 CE-M
CS88 10/16 CE-M
CS90 1000P CK-K
CS91 10/16 BP
CS92 1000P CK-K
CS93 0.033 MYL-K
CS94 5600P CK-K
CS95 5600P CK-K
CS96 0.033 MYL-K
CS97 10/16 CE-M
CS08 2200/16 CE-M
CS32 0.1 MYL-K
CSA3 0.1 MYL-K
CSA4 10/16 BP
CSA8 0.47 MYL-K
CSA9 0.047 MYL-K
CSN1 100/6.3 CE-M
CSN2 0.01 MYL-K
CSN3 10/50 CE-M
* ONLY FOR 35UX80B
** EXCEPT FOR 35UX80B
SURROUND PART
B
C
D
E
2
3
4
5
6

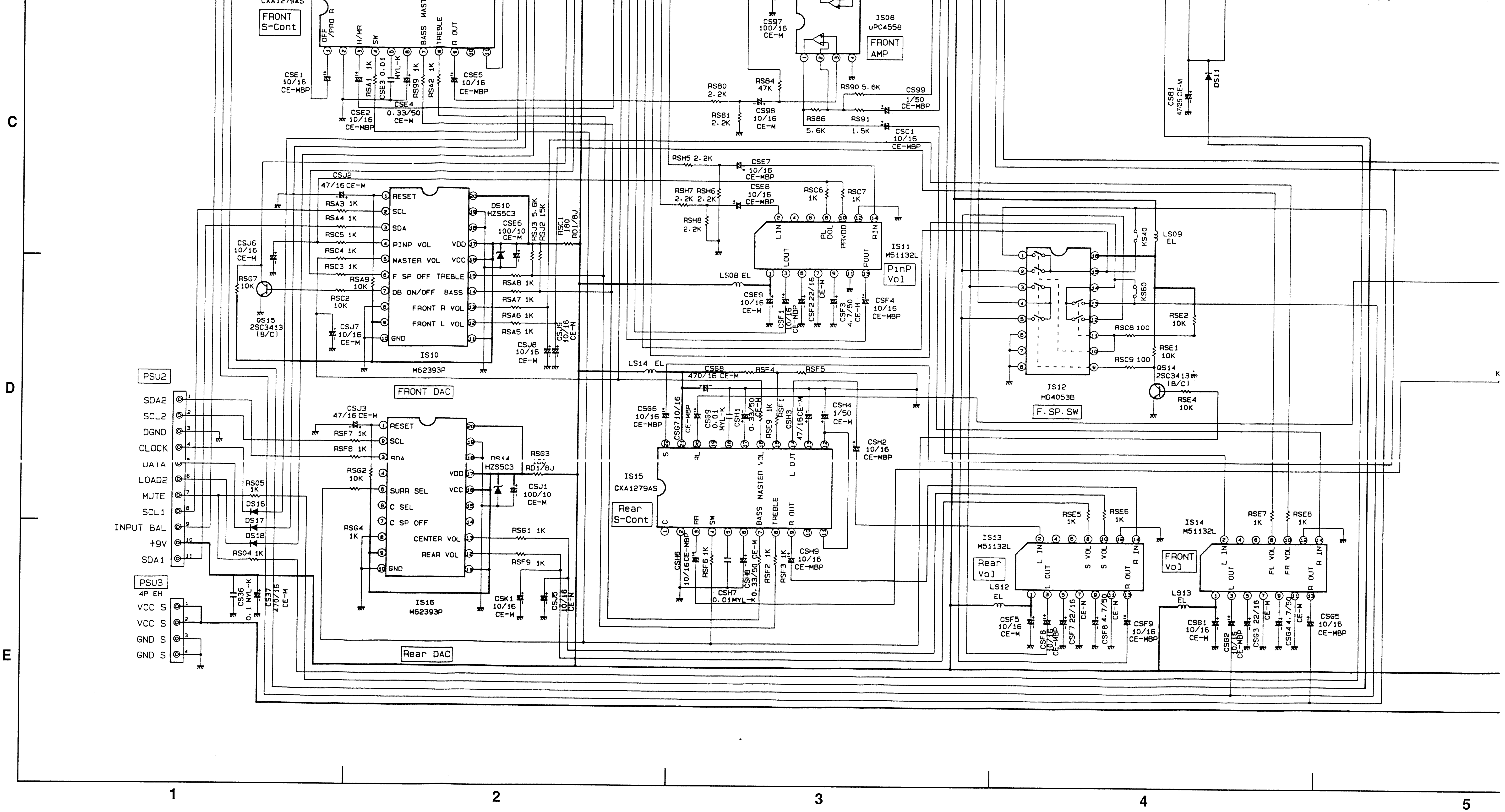
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.
- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.

PRODUCT SAF
any of these co
through imprope

CIRCUIT SCHEMATIC DIAGRAM OF 35UX70BA/CZ57P



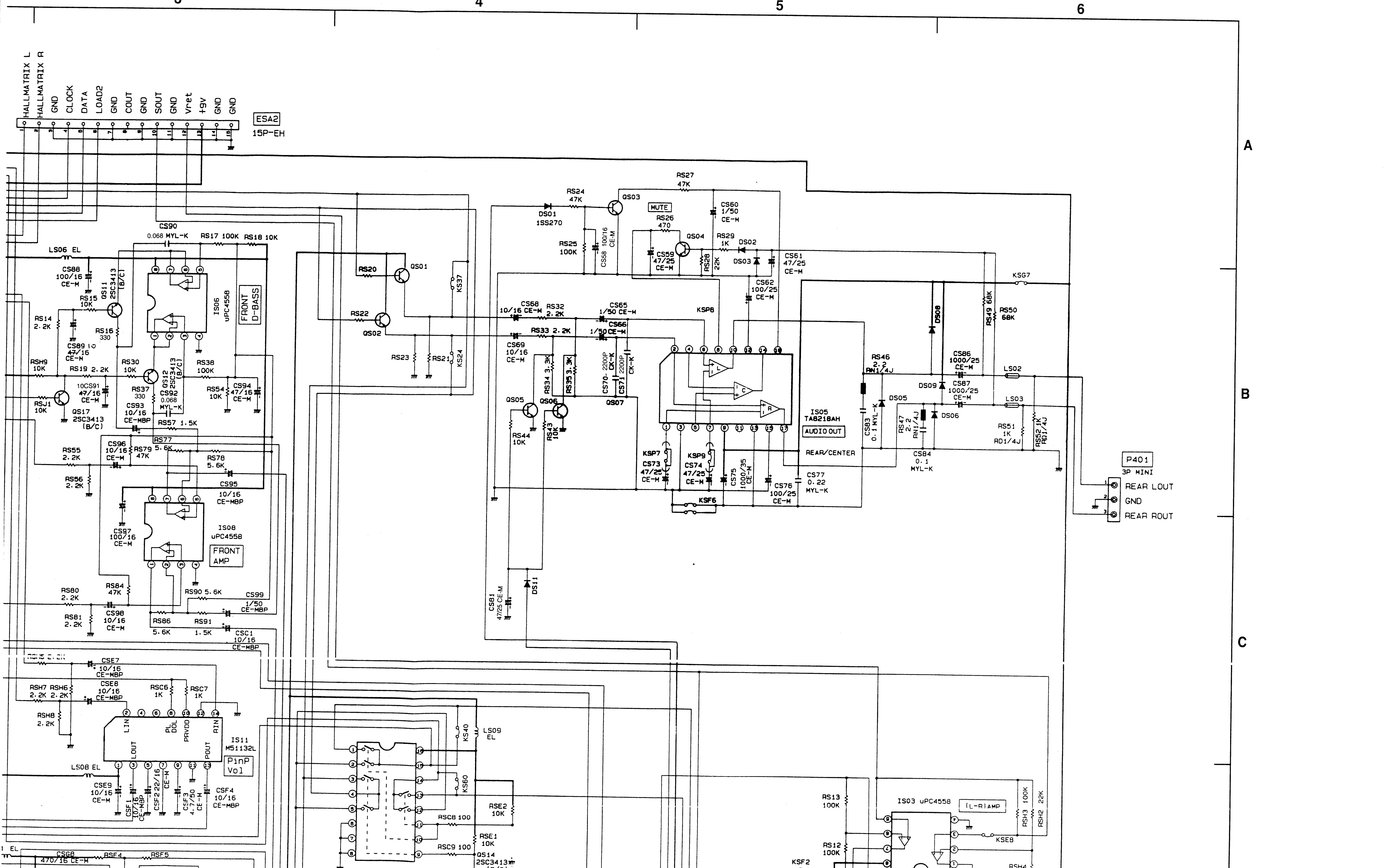
1
2
3
4
5
A
B
C
PSA1
15P-EH
INPUT BALLAHCE
VCC
GND
HIFI R
HIFI L
GND
F.SP OFF
GND
OFFPRO L
OFFPRO R
F-R
L
R
F-L
GND
HALLMATRIX L
HALLMATRIX R
GND
CLOCK
DATA
LOAD2
GND
COUT
GND
SOUT
GND
Vret
+9V
GND
GND
ESA2
15P-EH
PSU1
OFF/DOLBY
HIFI(R)L
HIFI(R)R
GND
PINP L IN
PINP R IN
GND
PINP L OUT
PINP R OUT
GND
L
R
F.SP OFF
R1
1K RD1/8J
R2
1K
RD1/8J
#PC00295
#PC00293
LS07 EL
CSC2 10/16 CE-MBP
CSC4
470/16
CE-M
RS95
CSC3 10/16 CE-MBP
CSC5 0.01 MYL-K
CSC6 0.33/50 CE-M
RS97 1K
CSC8 47/16 CE-M
CSC9 1/50 CE-M
CSC7 10/16 CE-MBP
IS09
CXA1279AS
FRONT
S-Cont
OFF /PRO L
H/ML
MASTER VOL
L OUT
OFF /PRO R
H/MR
SW
BASS
TREBLE
R OUT
CSE1
10/16
CE-MBP
RSA1 1K
CSE3 0.01 MYL-K
RS99 1K
RSA2 1K
CSE5
10/16
CE-MBP
CSE2
10/16
CE-MBP
CSE4
0.33/50
CE-M
LS06 EL
CS88
100/16
CE-M
QS11
2SC3413
(B/C)
RS15
10K
RS14
2.2K
RS16
330
CS89 10/16 CE-M
CS90
0.068 MYL-K
RS17 100K
RS18 10K
IS06
uPC4558
FRONT
D-BASS
RSH9
10K
RS19 2.2K
RS30
10K
QS12
2SC3413
(B/C)
RS38
100K
10CS91
47/16
CE-M
RS37
330
CS92
0.068
MYL-K
RS54
10K
CS94
47/16
CE-M
RSJ1
10K
QS17
2SC3413
(B/C)
CS93
10/16
CE-MBP
RS57 1.5K
RS77
5.6K
RS55
2.2K
CS96
10/16
CE-M
RS79
47K
RS78
5.6K
RS56
2.2K
CS95
10/16
CE-MBP
CS97
100/16
CE-M
IS08
uPC4558
FRONT
AMP
RS80
2.2K
RS84
47K
RS90 5.6K
CS99
1/50
CE-MBP
RS81
2.2K
CS98
10/16
CE-M
RS86
5.6K
RS91
1.5K
CSC1
10/16
CE-MBP
RS27
47K
RS24
47K
QS03
CS60
1/50
CE-M
MUTE
RS26
470
DS01
1SS270
RS25
100K
CS58 100/16 CE-M
QS04
RS29
1K
DS02
CS59
47/25
CE-M
RS28 22K
DS03
CS62
100/25
CE-M
RS20
QS01
KS37
RS22
QS02
RS23
RS21
KS24
CS68
10/16 CE-M
RS32
2.2K
CS65
1/50 CE-M
CS66
1/50 CE-M
RS33 2.2K
CS69
10/16
CE-M
KSP8
RS34 3.3K
RS35 3.3K
CS70 2200P CK-K
CS71 2200P CK-K
QS05
QS06
QS07
RS44
10K
RS43
10K
KSP7
CS73
47/25
CE-M
KSP9
CS74
47/25
CE-M
CS75
1000/35
CE-M
CS76
100/25
CE-M
KSF6
CS81
47/25 CE-M
DS11
CSJ2
47/16 CE-M
RSA3 1K
RSA4 1K
RSC5 1K
RSC4 1K
RSC3 1K
RSA9
10K
RSC2
10K
CSJ6
10/16
CE-M
RSG7
10K
QS15
2SC3413
(B/C)
CSJ7
10/16
CE-M
RESET
SCL
SDA
PINP VOL
MASTER VOL
F SP OFF
DB ON/OFF
FRONT R VOL
FRONT L VOL
GND
VDD
VCC
TREBLE
BASS
IS10
M62393P
DS10
HZS5C3
CSE6
100/10
CE-M
RSJ3 5.6K
RSJ2 15K
RSC1
180
RD1/8J
RSA8 1K
RSA7 1K
RSA6 1K
RSA5 1K
CSJ8
10/16
CE-M
CSJ4
10/16
CE-M
RSH5 2.2K
CSE7
10/16
CE-MBP
RSH7 2.2K
RSH6 2.2K
CSE8
10/16
CE-MBP
RSC6
1K
RSC7
1K
RSH8
2.2K
LIN
PL DOL
PRVDD
RIN
LOUT
POUT
IS11
M51132L
PinP
Vol
LS08 EL
CSE9
10/16
CE-M
CSF1 10/16 CE-MBP
CSF2 22/16 CE-M
CSF3 4.7/50 CE-M
CSF4
10/16
CE-MBP
LS14 EL
CSG8
RSF4
RSF5
KS40
LS09
EL
KS60
RSE2
10K
RSC8 100
RSE1
10K
RSC9 100
QS14


C
D
E
1
2
3
4
5
CXA1279AS
FRONT S-Cont
OFF /PRO R
H/HR
SW
BASS
MAST
TREBLE
R OUT
CSE1 10/16 CE-MBP
RSA1 1K
CSE3 0.01 MYL-K
RS99 1K
RSA2 1K
CSE5 10/16 CE-MBP
CSE2 10/16 CE-MBP
CSE4 0.33/50 CE-M
CS97 100/16 CE-M
IS08 uPC4558
FRONT AMP
RS80 2.2K
RS84 47K
RS81 2.2K
CS98 10/16 CE-M
RS90 5.6K
CS99 1/50 CE-MBP
RS86 5.6K
RS91 1.5K
CSC1 10/16 CE-MBP
CS81 47/25 CE-M
DS11
CSJ2 47/16 CE-M
RSA3 1K
RSA4 1K
RSA5 1K
RSC5 1K
RSC4 1K
RSC3 1K
RSA9 10K
RSC2 10K
CSJ7 10/16 CE-M
RESET
SCL
SDA
PINP VOL
MASTER VOL
F SP OFF
DB ON/OFF
FRONT R VOL
FRONT L VOL
GND
VDD
VCC
TREBLE
BASS
IS10
M62393P
FRONT DAC
DS10 HZS5C3
CSE6 100/10 CE-M
RSJ3 5.6K
RSJ2 15K
RSC1 180 RD1/8J
RSA8 1K
RSA7 1K
RSA6 1K
CSJ8 10/16 CE-M
CSJ9 10/16 CE-M
CSJ6 10/16 CE-M
RSG7 10K
QS15 2SC3413 (B/C)
RSH5 2.2K
CSE7 10/16 CE-MBP
RSH7 2.2K
RSH6 2.2K
CSE8 10/16 CE-MBP
RSH8 2.2K
RSC6 1K
RSC7 1K
LIN
PL DOL
PRVDD
RIN
LOUT
POUT
IS11 M51132L
PinP Vol
LS08 EL
CSE9 10/16 CE-M
CSF1 10/16 CE-MBP
CSF2 22/16 CE-M
CSF3 4.7/50 CE-M
CSF4 10/16 CE-MBP
KS40
LS09 EL
KS60
RSE2 10K
RSC8 100
RSC9 100
RSE1 10K
QS14 2SC3413 (B/C)
RSE4 10K
IS12 HD4053B
F.SP.SW
PSU2
SDA2
SCL2
DGND
CLOCK
DATA
LOAD2
MUTE
SCL1
INPUT BAL
+9V
SDA1
PSU3
4P EH
VCC S
VCC S
GND S
GND S
RS05 1K
DS16
DS17
DS18
RS04 1K
CS36 0.1 MYL-K
CS37 470/16 CE-M
CSJ3 47/16 CE-M
RSF7 1K
RSF8 1K
RSG2 10K
RSG4 1K
SURR SEL
C SEL
C SP OFF
CENTER VOL
REAR VOL
IS16
M62393P
Rear DAC
DS14 HZS5C3
RSG3 RD1/8J
CSJ1 100/10 CE-M
RSG1 1K
RSF9 1K
CSK1 10/16 CE-M
CSJ5 10/16 CE-M
LS14 EL
CSG8 470/16 CE-M
RSF4
RSF5
CSG6 10/16 CE-MBP
CSG7 10/16 CE-MBP
CSG9 0.01 MYL-K
CSH1 0.33/50 CE-M
RSE9 1K
RSF1
CSH3 47/16 CE-M
CSH4 1/50 CE-M
CSH2 10/16 CE-MBP
IS15
CXA1279AS
Rear S-Cont
RL
RR
SW
BASS
MASTER VOL
TREBLE
L OUT
R OUT
CSH6 10/16 CE-MBP
RSF6 1K
CSH7 0.01MYL-K
CSH8 0.33/50 CE-M
RSF2 1K
RSF3 1K
CSH9 10/16 CE-MBP
RSE5 1K
RSE6 1K
IS13 M51132L
Rear Vol
L IN
L OUT
S VOL
R OUT
R IN
LS12 EL
CSF5 10/16 CE-M
CSF6 10/16 CE-MBP
CSF7 22/16 CE-M
CSF8 4.7/50 CE-M
CSF9 10/16 CE-MBP
RSE7 1K
RSE8 1K
IS14 M51132L
FRONT Vol
FL VOL
FR VOL
LS13 EL
CSG1 10/16 CE-M
CSG2 10/16 CE-MBP
CSG3 22/16 CE-M
CSG4 4.7/50 CE-M
CSG5 10/16 CE-MBP

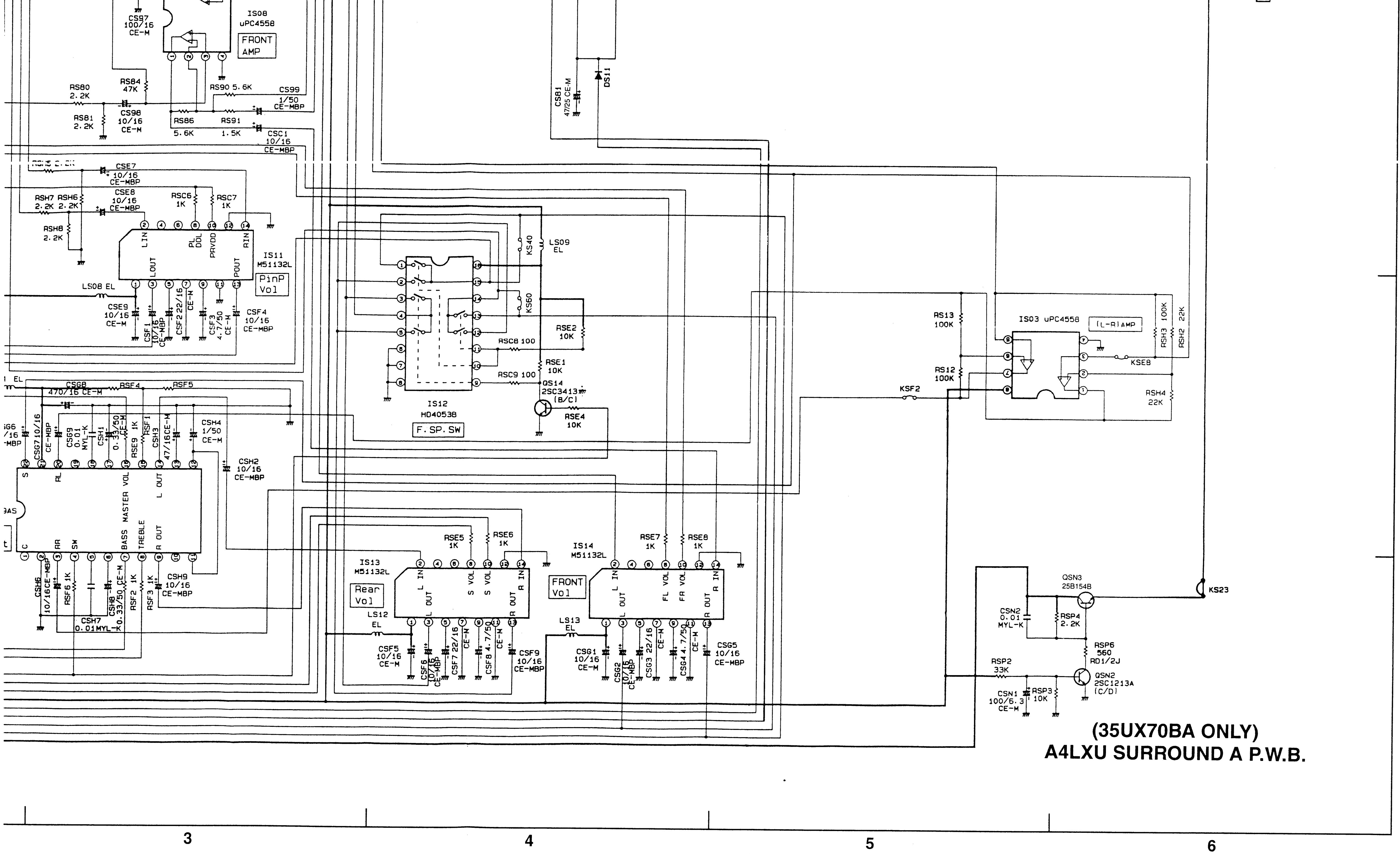
- Since this is a basic circuit diagram, th
- All DC voltage to be measured with a t

PRODUCT SAFETY NOTE: Components marked with a ⚠ and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

CIRCUIT SCHEMATIC DIAGRAM OF 35UX70BA/CZ57P



3
4
5
6
A
B
C
HALLMATRIX L
HALLMATRIX R
GND
CLOCK
DATA
LOAD2
GND
COUT
GND
SOUT
GND
Vret
+9V
GND
GND
ESA2
15P-EH
CS90
0.068 MYL-K
RS17 100K
RS18 10K
LS06 EL
CS88
100/16
CE-M
RS15
10K
QS11
2SC3413
(B/C)
IS06
uPC4558
FRONT
D-BASS
RS14
2.2K
RS16
330
CS89 10
47/16
CE-M
RSH9
10K
RS19 2.2K
RS30
10K
RS38
100K
CS91
47/16
CE-M
RS37
330
QS12
2SC3413
(B/C)
CS92
0.068
MYL-K
RS54
10K
CS94
47/16
CE-M
RSJ1
10K
QS17
2SC3413
(B/C)
CS93
10/16
CE-MBP
RS57 1.5K
RS55
2.2K
CS96
10/16
CE-M
RS79
47K
RS77
5.6K
RS78
5.6K
RS56
2.2K
CS95
10/16
CE-MBP
CS97
100/16
CE-M
IS08
uPC4558
FRONT
AMP
RS80
2.2K
RS84
47K
RS90 5.6K
CS99
1/50
CE-MBP
RS81
2.2K
CS98
10/16
CE-M
RS86
5.6K
RS91
1.5K
CSC1
10/16
CE-MBP
CSE7
10/16
CE-MBP
RSH7
2.2K
RSH6
2.2K
CSE8
10/16
CE-MBP
RSC6
1K
RSC7
1K
RSH8
2.2K
LIN
PL DDL
PRVDD
RIN
LOUT
POUT
IS11
M51132L
PinP
Vol
LS08 EL
CSE9
10/16
CE-M
CSF1
10/16
CE-MBP
CSF2 22/16
CE-M
CSF3
4.7/50
CE-M
CSF4
10/16
CE-MBP
CSG8
470/16 CE-M
RSF4
RSF5
RS24
47K
DS01
1SS270
QS03
MUTE
RS26
470
RS27
47K
CS60
1/50
CE-M
RS25
100K
CS58 100/16
CE-M
CS59
47/25
CE-M
QS04
RS28
22K
RS29
1K
DS02
DS03
CS61
47/25
CE-M
CS62
100/25
CE-M
RS20
QS01
KS37
RS22
QS02
RS23
RS21
KS24
CS68
10/16 CE-M
RS32
2.2K
CS65
1/50 CE-M
CS66
1/50 CE-M
KSP8
CS69
10/16
CE-M
RS33 2.2K
RS34 3.3K
RS35 3.3K
CS70 2200P CK-K
CS71 2200P CK-K
QS05
QS06
QS07
RS44
10K
RS43
10K
KSP7
CS73
47/25
CE-M
KSP9
CS74
47/25
CE-M
CS75
1000/35
CE-M
CS76
100/25
CE-M
KSF6
IS05
TA8218AH
AUDIO OUT
REAR/CENTER
CS77
0.22
MYL-K
CS81
47/25 CE-M
DS11
RS46
2.2
RN1/4J
CS83
0.1 MYL-K
RS47
2.2
RN1/4J
DS05
DS06
CS84
0.1
MYL-K
DS08
DS09
CS86
1000/25
CE-M
CS87
1000/25
CE-M
RS49 68K
RS50
68K
KSG7
LS02
LS03
RS51
1K
RD1/4J
RS52 1K
RD1/4J
P401
3P MINI
REAR LOUT
GND
REAR ROUT
KS40
LS09
EL
KS60
RSE2
10K
RSC8 100
RSE1
10K
RSC9 100
QS14
2SC3413
RS13
100K
RS12
100K
IS03 uPC4558
(L-R)AMP
RSH3 100K
RSH2 22K
KSE8
KSF2
RSH4


IS08
uPC4558
FRONT AMP
CS97 100/16 CE-M
RS80 2.2K
RS81 2.2K
RS84 47K
CS98 10/16 CE-M
RS90 5.6K
CS99 1/50 CE-MBP
RS86 5.6K
RS91 1.5K
CSC1 10/16 CE-MBP
CS81 47/25 CE-M
DS11
CSE7 10/16 CE-MBP
CSE8 10/16 CE-MBP
RSH7 2.2K
RSH6 2.2K
RSH8 2.2K
RSC6 1K
RSC7 1K
IS11
M51132L
PinP Vol
LIN
PL DDL
PRVDD
RIN
LOUT
POUT
LS08 EL
CSE9 10/16 CE-M
CSF1 10/16 CE-MBP
CSF2 22/16
CE-M
CSF3 4.7/50 CE-M
CSF4 10/16 CE-MBP
KS40
LS09 EL
KS60
IS12
HD4053B
F.SP.SW
RSE2 10K
RSC8 100
RSE1 10K
RSC9 100
QS14
2SC3413
(B/C)
RSE4 10K
RS13 100K
RS12 100K
KSF2
IS03 uPC4558
(L-R)AMP
RSH3 100K
RSH2 22K
KSE8
RSH4 22K
C
D
E
CSG8 470/16 CE-M
RSF4
RSF5
CSG6 10/16 CE-MBP
CSG7 10/16 CE-MBP
CSG9 0.01 MYL-K
CSH1 0.33/50 CE-M
RSE9 1K
RSF1
CSH3 47/16 CE-M
CSH4 1/50 CE-M
CSH2 10/16 CE-MBP
S
RL
VOL
L OUT
BASS
MASTER
TREBLE
R OUT
C
RR
SW
CSH6 10/16 CE-MBP
RSF6 1K
CSH8 0.33/50 CE-M
RSF2 1K
RSF3 1K
CSH9 10/16 CE-MBP
CSH7 0.01 MYL-K
RSE5 1K
RSE6 1K
IS13
M51132L
Rear Vol
L IN
S VOL
R IN
L OUT
R OUT
LS12 EL
CSF5 10/16 CE-M
CSF6 10/16 CE-MBP
CSF7 22/16
CE-M
CSF8 4.7/50
CE-M
CSF9 10/16 CE-MBP
IS14
M51132L
RSE7 1K
RSE8 1K
FRONT Vol
FL VOL
FR VOL
LS13 EL
CSG1 10/16 CE-M
CSG2 10/16 CE-MBP
CSG3 22/16
CE-M
CSG4 4.7/50
CE-M
CSG5 10/16 CE-MBP
QSN3
2SB1548
KS23
CSN2 0.01 MYL-K
RSP4 2.2K
RSP6 560 RD1/2J
RSP2 33K
QSN2
2SC1213A
(C/D)
CSN1 100/6.3 CE-M
RSP3 10K
3
4
5
6

(35UX70BA ONLY)
A4LXU SURROUND A P.W.B.

- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.
- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.

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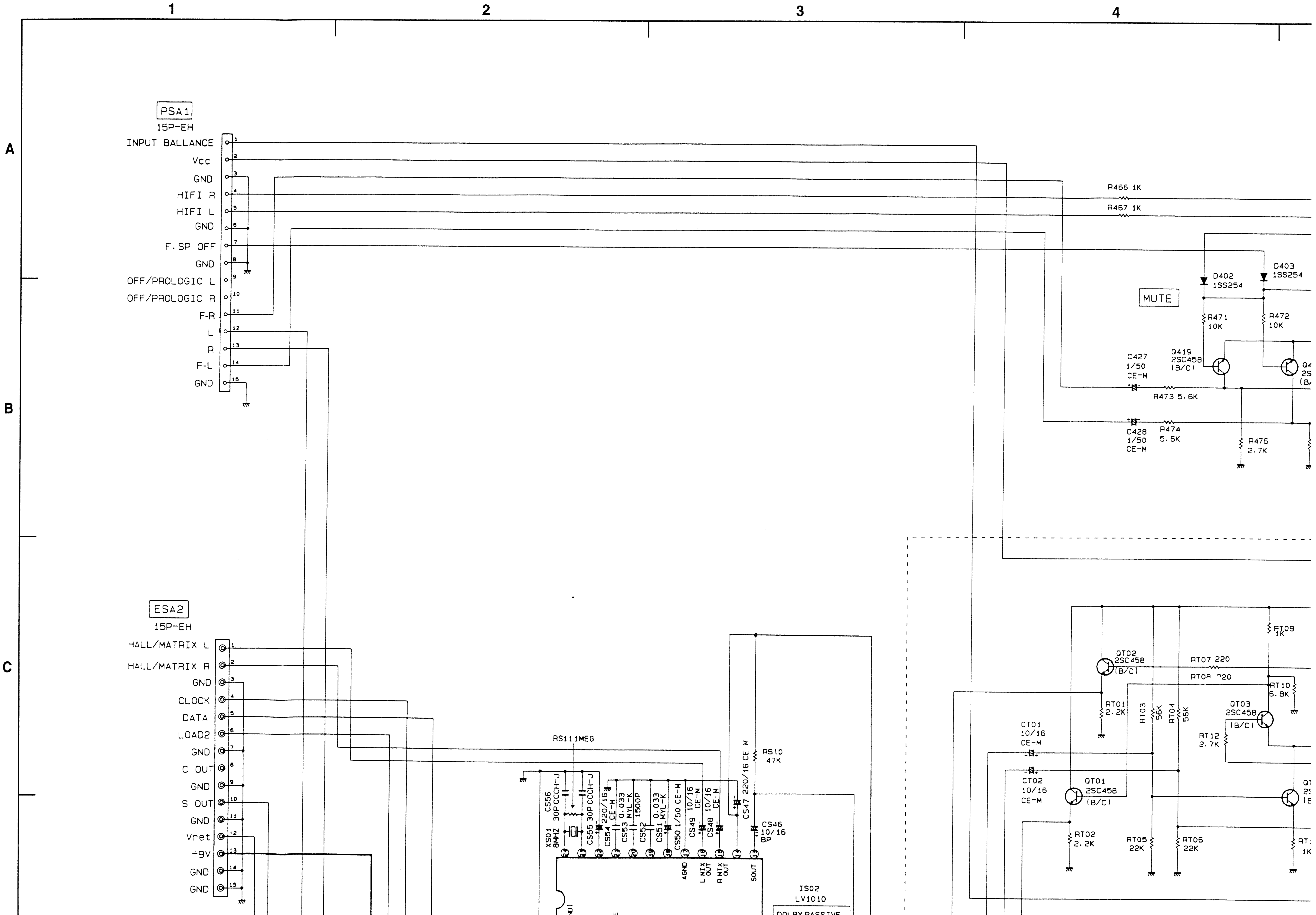
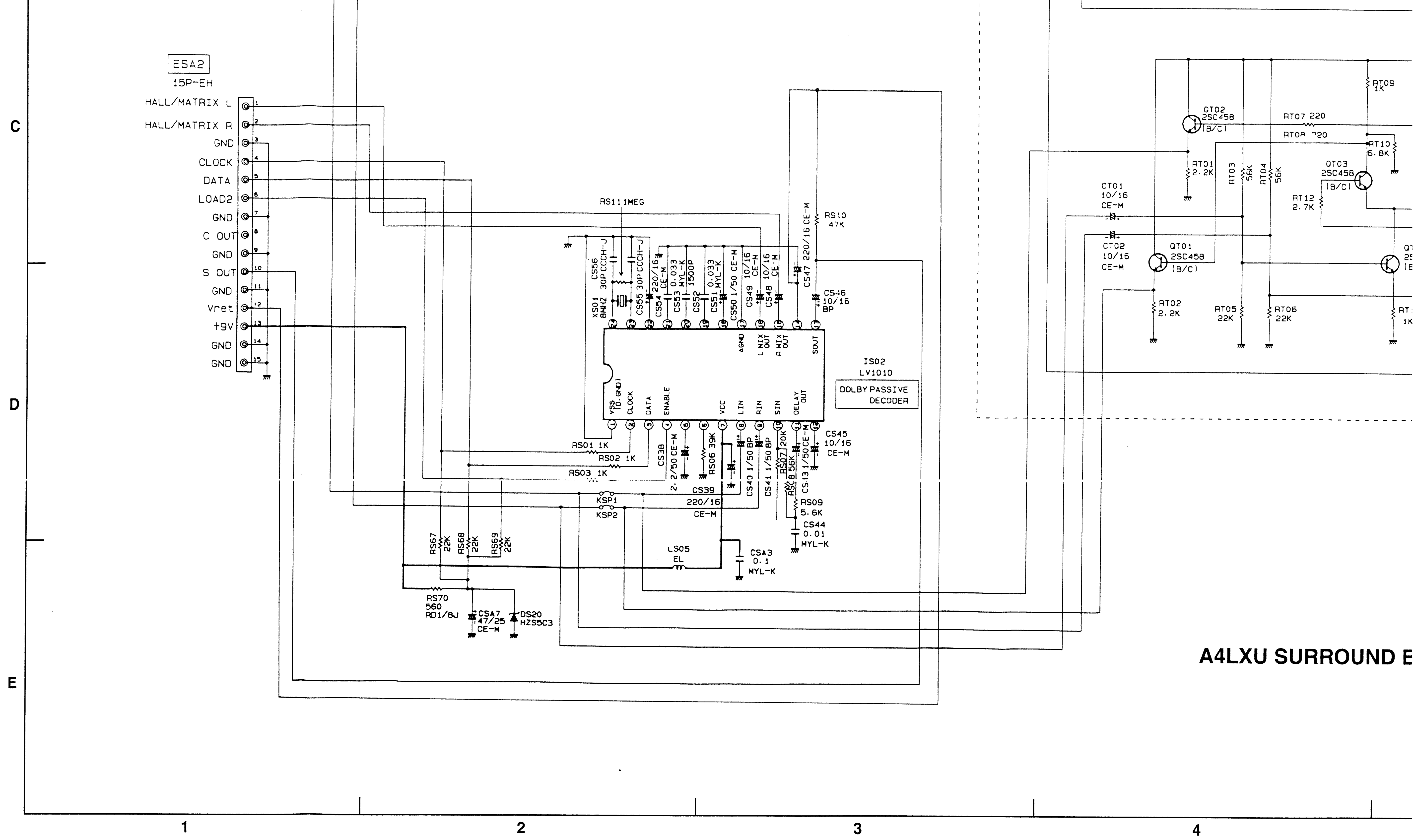
CIRCUIT SCHEMATIC DIAGRAM OF 35UX70BA/CZ57P


1
2
3
4
A
B
C
PSA1
15P-EH
INPUT BALLANCE
Vcc
GND
HIFI R
HIFI L
GND
F.SP OFF
GND
OFF/PROLOGIC L
OFF/PROLOGIC R
F-R
L
R
F-L
GND
ESA2
15P-EH
HALL/MATRIX L
HALL/MATRIX R
GND
CLOCK
DATA
LOAD2
GND
C OUT
GND
S OUT
GND
Vret
+9V
GND
GND
R466 1K
R467 1K
D402
1SS254
D403
1SS254
MUTE
R471
10K
R472
10K
C427
1/50
CE-M
Q419
2SC458
(B/C)
R473 5.6K
C428
1/50
CE-M
R474
5.6K
R476
2.7K
RS11 1MEG
XS01
8MHZ
CS56
30P CCCH-J
CS55 30P CCCH-J
CS54 220/16
CE-M
CS53 0.033
MYL-K
CS52 1500P
CS51 0.033
MYL-K
CS50 1/50 CE-M
CS49 10/16
CE-M
CS48 10/16
CE-M
CS47 220/16 CE-M
RS10
47K
CS46
10/16
BP
AGND
L MIX OUT
R MIX OUT
SOUT
IS02
LV1010
DOLBY PASSIVE
QT02
2SC458
(B/C)
RT07 220
RT08 220
RT09
1K
RT10
6.8K
RT01
2.2K
RT03
56K
RT04
56K
QT03
2SC458
(B/C)
RT12
2.7K
CT01
10/16
CE-M
CT02
10/16
CE-M
QT01
2SC458
(B/C)
RT02
2.2K
RT05
22K
RT06
22K



C
D
E
1
2
3
4
ESA2
15P-EH
HALL/MATRIX L
HALL/MATRIX R
GND
CLOCK
DATA
LOAD2
GND
C OUT
GND
S OUT
GND
Vret
+9V
GND
GND
RS11 1MEG
CS56 30P CCCH-J
XS01 8MHZ
CS55 30P CCCH-J
CS54 220/16 CE-M
CS53 0.033 MYL-K
CS52 1500P
CS51 0.033 MYL-K
CS50 1/50 CE-M
CS49 10/16 CE-M
CS48 10/16 CE-M
CS47 220/16 CE-M
RS10 47K
CS46 10/16 BP
AGND
L MIX OUT
R MIX OUT
SOUT
IS02
LV1010
DOLBY PASSIVE DECODER
VSS (D.GND)
CLOCK
DATA
ENABLE
VCC
LIN
RIN
SIN
DELAY OUT
RS01 1K
RS02 1K
RS03 1K
CS38 2.2/50 CE-M
RS06 39K
CS40 1/50 BP
CS41 1/50 BP
RS07 20K
RS08 56K
CS13 1/50 CE-M
CS45 10/16 CE-M
CS39 220/16 CE-M
KSP1
KSP2
RS09 5.6K
CS44 0.01 MYL-K
LS05 EL
CSA3 0.1 MYL-K
RS67 22K
RS68 22K
RS69 22K
RS70 560 RD1/8J
CSA7 47/25 CE-M
DS20 HZS5C3
CT01 10/16 CE-M
CT02 10/16 CE-M
QT01 2SC458 (B/C)
QT02 2SC458 (B/C)
QT03 2SC458 (B/C)
RT01 2.2K
RT02 2.2K
RT03 56K
RT04 56K
RT05 22K
RT06 22K
RT07 220
RT08 220
RT09 1K
RT10 6.8K
RT12 2.7K

A4LXU SURROUND E

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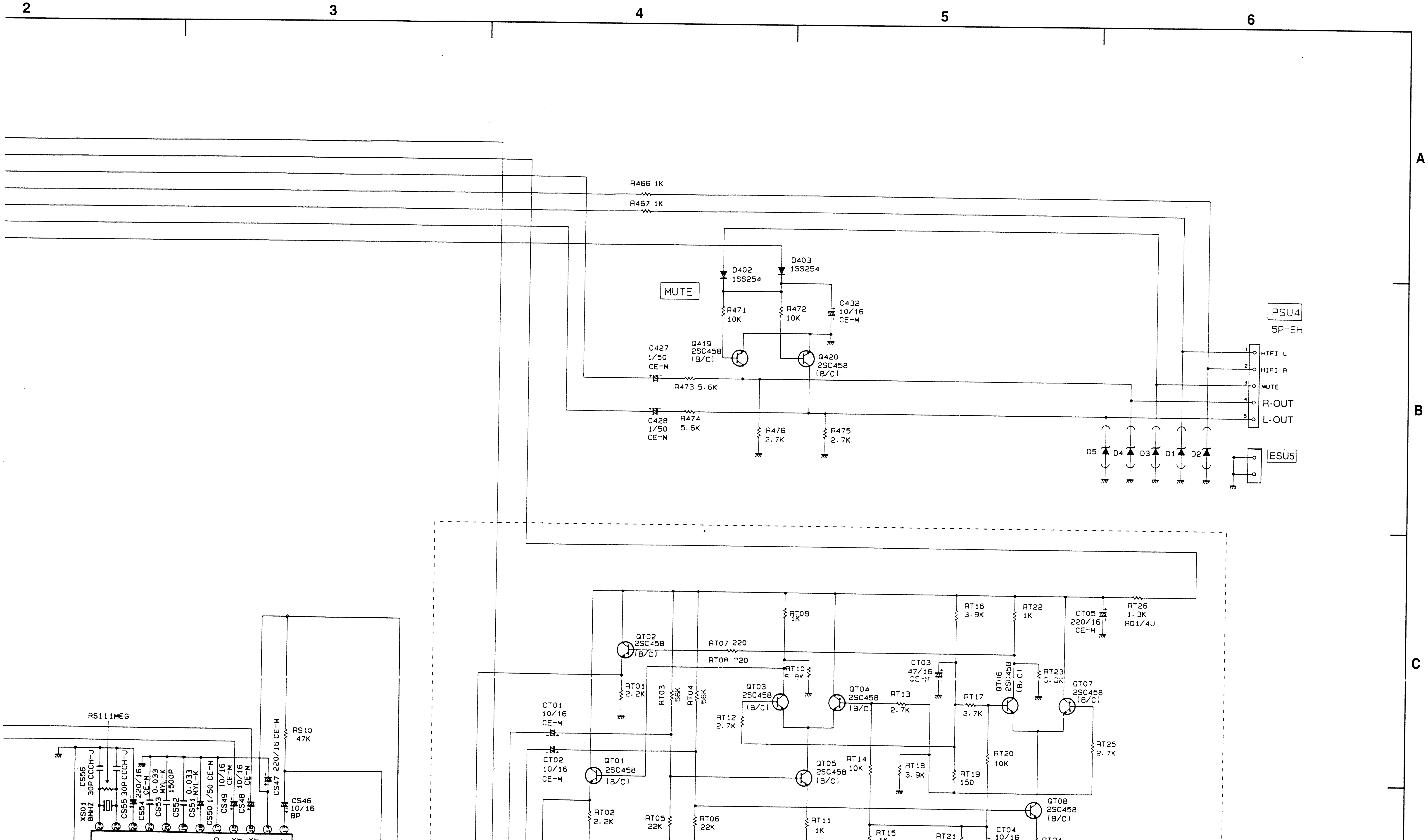
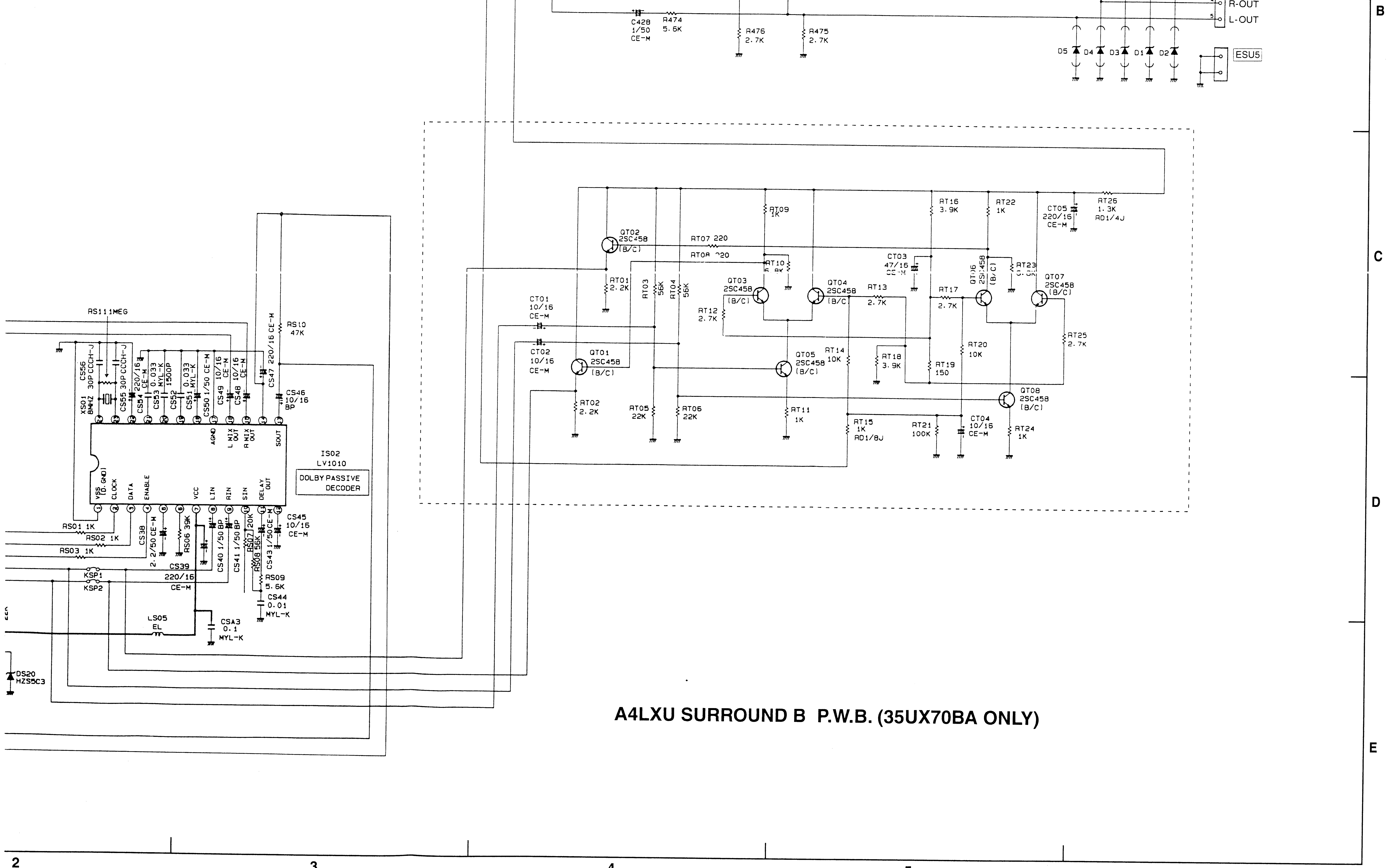
CIRCUIT SCHEMATIC DIAGRAM OF 35UX70BA/CZ57P



2
3
4
5
6
A
B
C
R466 1K
R467 1K
D402 1SS254
D403 1SS254
MUTE
R471 10K
R472 10K
C432 10/16 CE-M
C427 1/50 CE-M
Q419 2SC458 (B/C)
Q420 2SC458 (B/C)
R473 5.6K
C428 1/50 CE-M
R474 5.6K
R476 2.7K
R475 2.7K
PSU4
5P-EH
HIFI L
HIFI R
MUTE
R-OUT
L-OUT
D5
D4
D3
D1
D2
ESU5
QT02 2SC458 (B/C)
RT09 1K
RT07 220
RT08 220
RT10
RT01 2.2K
RT03 56K
RT04 56K
QT03 2SC458 (B/C)
QT04 2SC458 (B/C)
RT12 2.7K
RT13 2.7K
CT03 47/16 CE-M
RT16 3.9K
RT22 1K
CT05 220/16 CE-M
RT26 1.3K RD1/4J
QT06 2SC458 (B/C)
RT23
QT07 2SC458 (B/C)
RT17 2.7K
RT25 2.7K
CT01 10/16 CE-M
CT02 10/16 CE-M
QT01 2SC458 (B/C)
QT05 2SC458 (B/C)
RT14 10K
RT18 3.9K
RT19 150
RT20 10K
QT08 2SC458 (B/C)
RT02 2.2K
RT05 22K
RT06 22K
RT11 1K
RT15
RT21
CT04 10/16
RT24
RS11 1MEG
RS10 47K
CS47 220/16 CE-M
CS46 10/16 BP
XS01 8MHZ
CS56 30P CCCH-J
CS55 30P CCCH-J
CS54 220/16 CE-M
CS53 0.033 MYL-K
CS52 1500P
CS51 0.033 MYL-K
CS50 1/50 CE-M
CS49 10/16 CE-M
CS48 10/16 CE-M



R-OUT
L-OUT
C428 1/50 CE-M
R474 5.6K
R476 2.7K
R475 2.7K
D5
D4
D3
D1
D2
ESU5
RS11 1MEG
XS01 8MHZ
CS56 30P CCCH-J
CS55 30P CCCH-J
CS54 220/16 CE-M
CS53 0.033 MYL-K
CS52 1500P
CS51 0.033 MYL-K
CS50 1/50 CE-M
CS49 10/16 CE-M
CS48 10/16 CE-M
CS47 220/16 CE-M
RS10 47K
CS46 10/16 BP
AGND
L MIX OUT
R MIX OUT
SOUT
IS02
LV1010
DOLBY PASSIVE DECODER
VSS (D.GND)
CLOCK
DATA
ENABLE
VCC
LIN
RIN
SIN
DELAY OUT
CS45 10/16 CE-M
RS01 1K
RS02 1K
RS03 1K
CS38 2.2/50 CE-M
RS06 39K
CS40 1/50 BP
CS41 1/50 BP
RS07 20K
RS08 56K
CS43 1/50 CE-M
RS09 5.6K
CS44 0.01 MYL-K
CS39 220/16 CE-M
KSP1
KSP2
LS05 EL
CSA3 0.1 MYL-K
DS20 HZS5C3
QT01 2SC458 (B/C)
QT02 2SC458 (B/C)
QT03 2SC458 (B/C)
QT04 2SC458 (B/C)
QT05 2SC458 (B/C)
QT06 2SC458 (B/C)
QT07 2SC458 (B/C)
QT08 2SC458 (B/C)
CT01 10/16 CE-M
CT02 10/16 CE-M
CT03 47/16 CE-M
CT04 10/16 CE-M
CT05 220/16 CE-M
RT01 2.2K
RT02 2.2K
RT03 56K
RT04 56K
RT05 22K
RT06 22K
RT07 220
RT08 220
RT09 1K
RT10 5.6K
RT11 1K
RT12 2.7K
RT13 2.7K
RT14 10K
RT15 1K RD1/8J
RT16 3.9K
RT17 2.7K
RT18 3.9K
RT19 150
RT20 10K
RT21 100K
RT22 1K
RT23 5.6K
RT24 1K
RT25 2.7K
RT26 1.3K RD1/4J
B
C
D
E
2
3
4
5
6

A4LXU SURROUND B P.W.B. (35UX70BA ONLY)

- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.
- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.

PRODUCT SAFET
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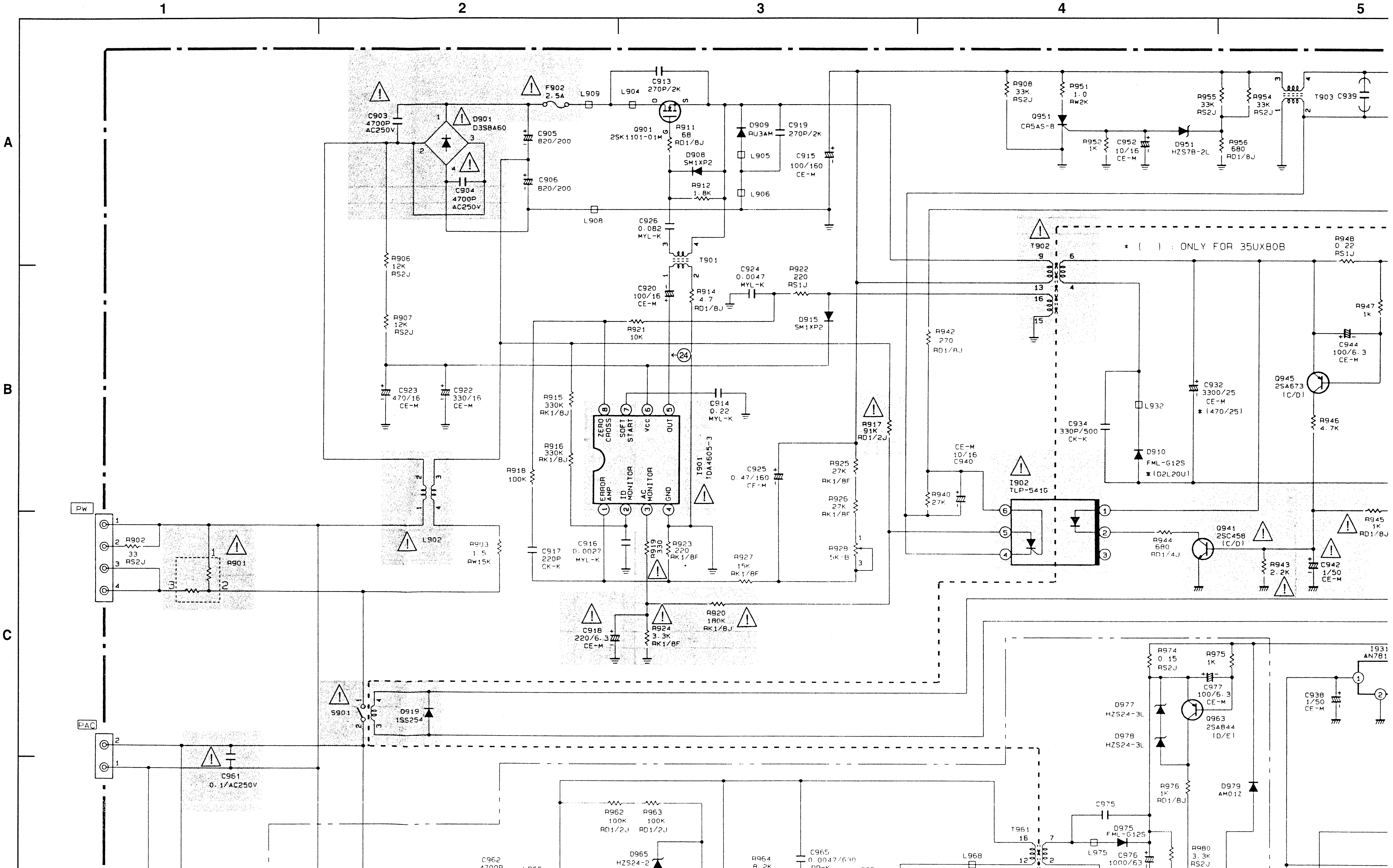
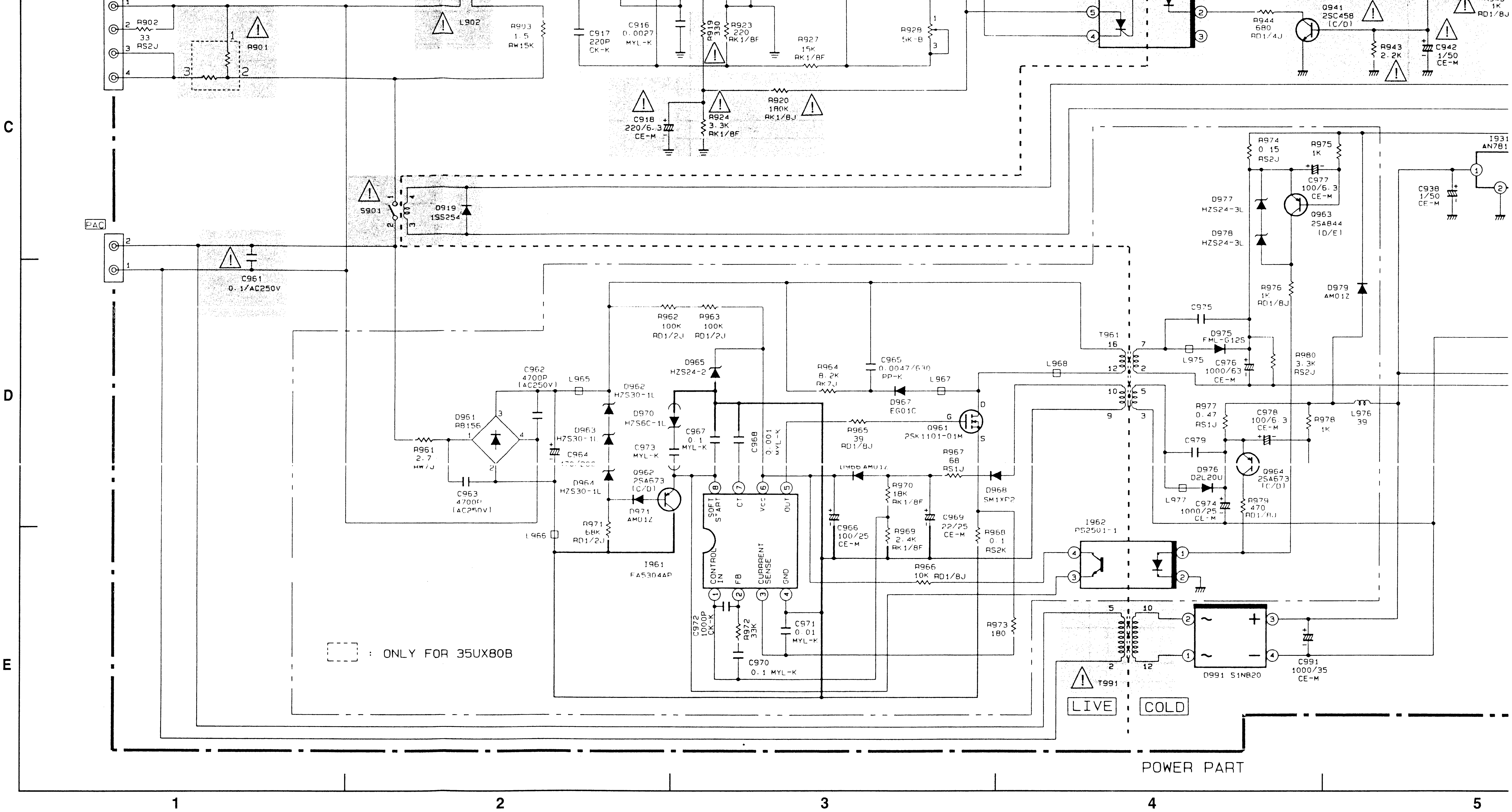
CIRCUIT SCHEMATIC DIAGRAM OF 35UX80B/CZ58, 35UX70B/CZ57, 35UX70BA/CZ57P, 35TX79K/CZ56, 32UX8B/CY58


1
2
3
4
5
A
B
C
PW
PAC
R902 33 RS2J
R901
C903 4700P AC250V
D901 D3SBA60
C904 4700P AC250V
C905 820/200
C906 820/200
F902 2.5A
L909
L904
C913 270P/2K
Q901 2SK1101-01M
R911 68 RD1/8J
D908 SM1XP2
R912 1.8K
D909 RU3AM
C919 270P/2K
L905
L906
C915 100/160 CE-M
L908
C926 0.082 MYL-K
T901
C920 100/16 CE-M
R914 4.7 RD1/8J
C924 0.0047 MYL-K
R922 220 RS1J
D915 SM1XP2
R921 10K
24
R906 12K RS2J
R907 12K RS2J
C923 470/16 CE-M
C922 330/16 CE-M
R915 330K RK1/8J
R916 330K RK1/8J
R918 100K
C914 0.22 MYL-K
ZERO CROSS
SOFT START
Vcc
OUT
ERROR AMP
ID MONITOR
AC MONITOR
GND
I901 TDA4605-3
C925 0.47/160 CE-M
R917 91K RD1/2J
R925 27K RK1/8F
R926 27K RK1/8F
R928 5K-B
R927 15K RK1/8F
L902
R903 1.5 RW15K
C917 220P CK-K
C916 0.0027 MYL-K
R919 330
R923 220 RK1/8F
R920 180K RK1/8J
C918 220/6.3 CE-M
R924 3.3K RK1/8F
S901
D919 1SS254
C961 0.1/AC250V
R908 33K RS2J
R951 1.0 RW2K
Q951 CR5AS-8
R952 1K
C952 10/16 CE-M
D951 HZS7B-2L
R955 33K RS2J
R954 33K RS2J
R956 680 RD1/8J
T903 C939
T902
* ( ) : ONLY FOR 35UX80B
R948 0.22 RS1J
R942 270 RD1/8J
R947 1K
C944 100/6.3 CE-M
Q945 2SA673 (C/D)
R946 4.7K
C932 3300/25 CE-M * (470/25)
L932
C934 330P/500 CK-K
D910 FML-G12S * (D2L20U)
CE-M 10/16 C940
R940 27K
I902 TLP-541G
R944 680 RD1/4J
Q941 2SC458 (C/D)
R943 2.2K
C942 1/50 CE-M
R945 1K RD1/8J
R974 0.15 RS2J
R975 1K
C977 100/6.3 CE-M
Q963 2SA844 (D/E)
D977 HZS24-3L
D978 HZS24-3L
R976 1K RD1/8J
D979 AM01Z
I931 AN781
C938 1/50 CE-M
C975
D975 FML-G12S
L975
C976 1000/63
R980 3.3K RS2J
T961
L968
R962 100K RD1/2J
R963 100K RD1/2J
D965 HZS24-2
R964 8.2K
C965 0.0047/630
C962 4700P

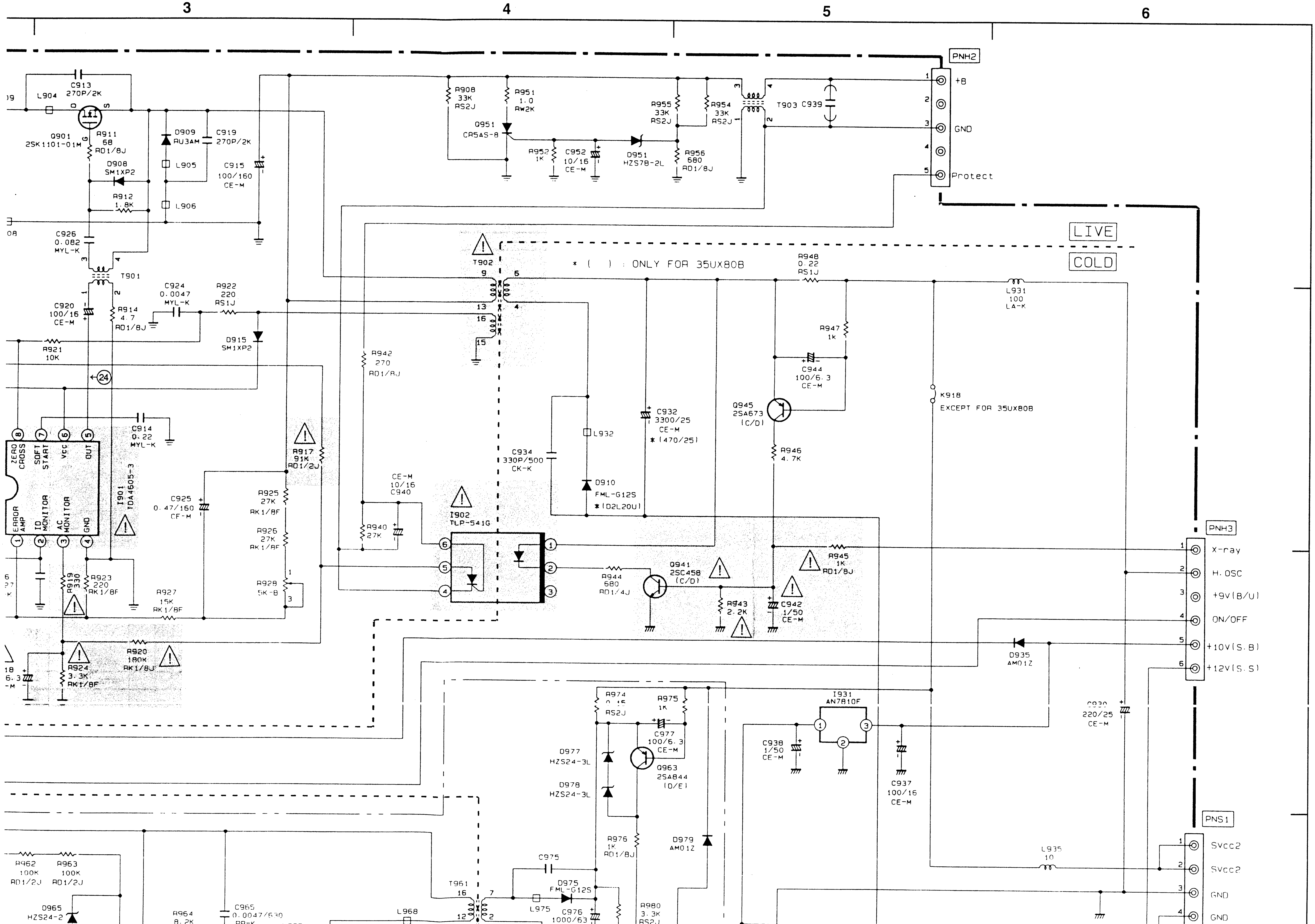

C
D
E
1
2
3
4
5
R902 33 RS2J
R901
L902
R903 1.5 RW15K
C917 220P CK-K
C916 0.0027 MYL-K
R919 330
R923 220 RK1/8F
R927 15K RK1/8F
R928 5K-B
R920 180K RK1/8J
R924 3.3K RK1/8F
C918 220/6.3 CE-M
R944 680 RD1/4J
Q941 2SC458 (C/D)
R943 2.2K
C942 1/50 CE-M
S901
D919 1SS254
PAC
C961 0.1/AC250V
R974 0.15 RS2J
R975 1K
C977 100/6.3 CE-M
D977 HZS24-3L
D978 HZS24-3L
Q963 2SA844 (D/E)
I931 AN781
C938 1/50 CE-M
R976 1K RD1/8J
D979 AM01Z
C975
D975 FML-G12S
L975
C976 1000/63 CE-M
R980 3.3K RS2J
T961
R962 100K RD1/2J
R963 100K RD1/2J
D965 HZS24-2
R964 8.2K RK7J
C965 0.0047/630 PP-K
L967
D967 EG01C
L968
C962 4700P (AC250V)
L965
D962 HZS30-1L
D970 HZS6C-1L
D961 RB156
D963 HZS30-1L
C964
C967 0.1 MYL-K
C968 0.001 MYL-K
R965 39 RD1/8J
Q961 2SK1101-01M
R977 0.47 RS1J
C978 100/6.3 CE-M
R978 1K
L976 39
R961 2.7 RW7J
C973 MYL-K
D964 HZS30-1L
Q962 2SA673 (C/D)
D966 AM01Z
R967 68 RS1J
C979
D968 SM1XF2
Q964 2SA673 (C/D)
D976 D2L20U
C963 4700P (AC250V)
D971 AM01Z
R970 18K RK1/8F
L977
C974 1000/25 CE-M
R979 470 RD1/8J
SOFT START
CT
VCC
OUT
CONTROL IN
FB
CURRENT SENSE
GND
C966 100/25 CE-M
R969 2.4K RK1/8F
C969 22/25 CE-M
R968 0.1 RS2K
I962 PS2501-1
R971 68K RD1/2J
L966
I961 FA5304AP
R966 10K RD1/8J
C972 1000P CK-K
R972 33K
C971 0.01 MYL-K
C970 0.1 MYL-K
R973 180
T991
D991 S1NB20
C991 1000/35 CE-M
: ONLY FOR 35UX80B
LIVE
COLD

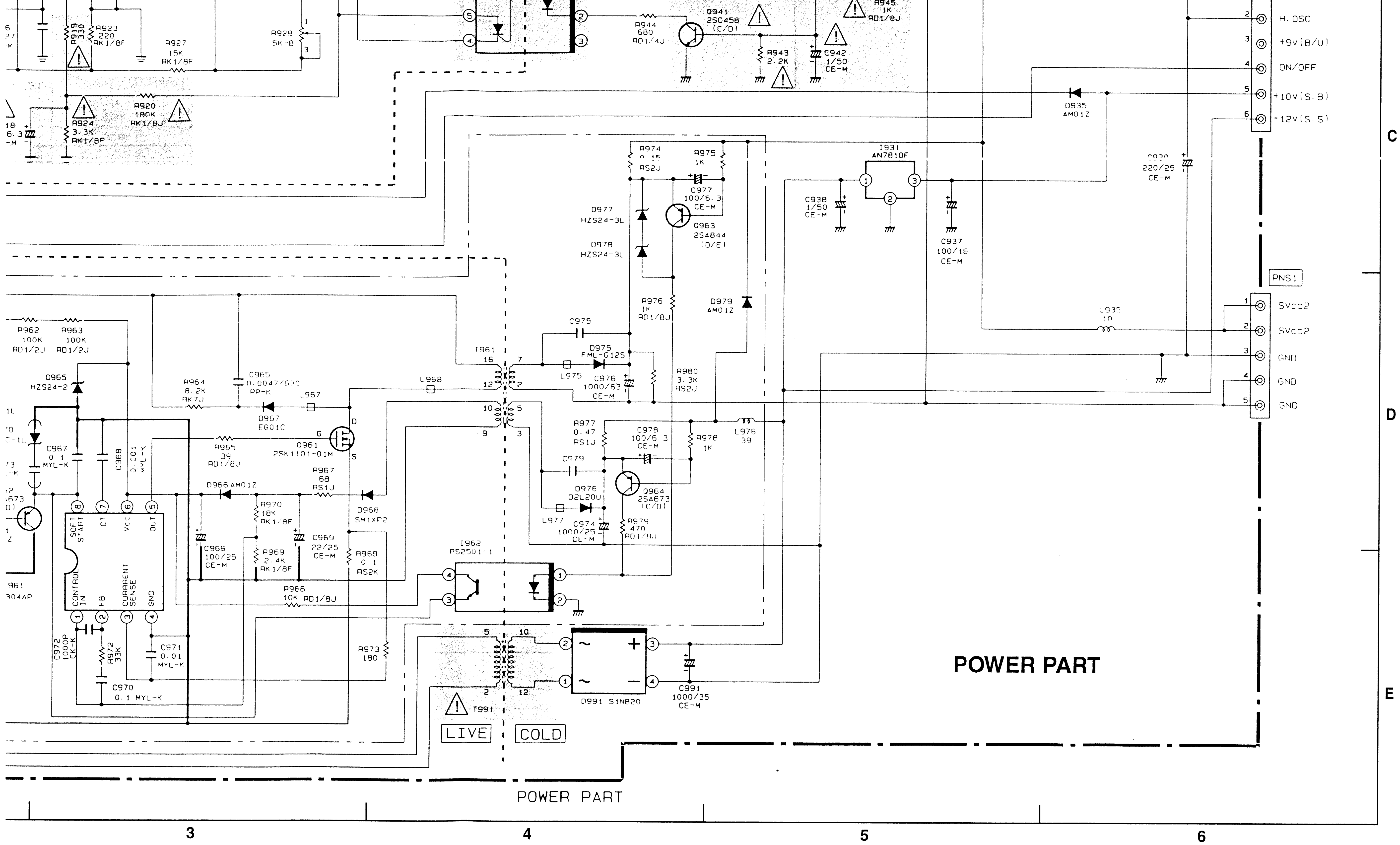
POWER PART

• Since this is a basic circuit diagram, th
• All DC voltage to be measured with a

CIRCUIT SCHEMATIC DIAGRAM OF 35UX80B/CZ58, 35UX70B/CZ57, 35UX70BA/CZ57P, 35TX79K/CZ56, 32UX8B/CY58

PRODUCT SAFETY NOTE: Components marked with a ⚠ and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

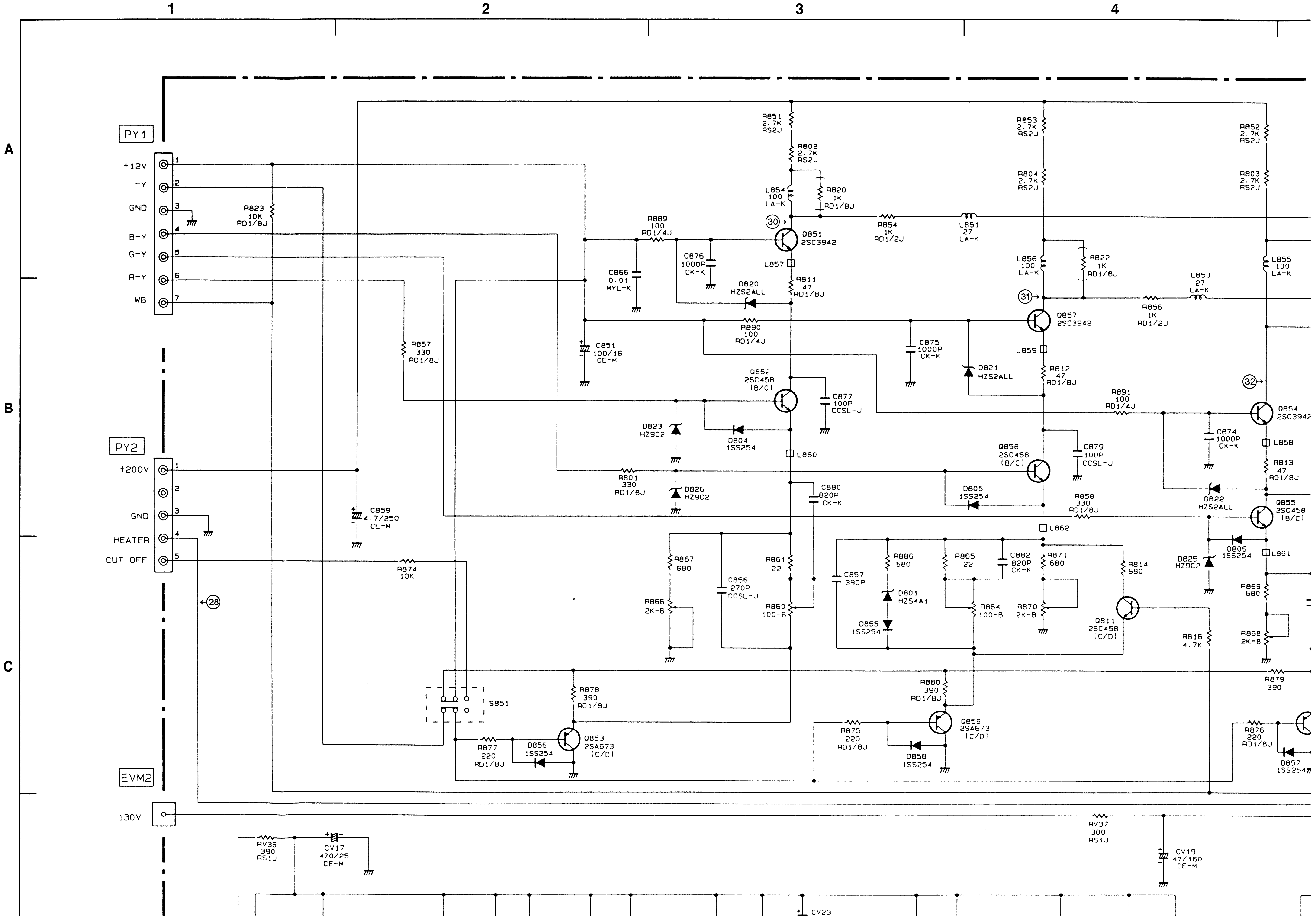

3
4
5
6
A
B
C
PNH2
+B
GND
Protect
C913 270P/2K
L904
Q901 2SK1101-01M
R911 68 RD1/8J
D908 SM1XP2
R912 1.8K
D909 RU3AM
C919 270P/2K
L905
L906
C915 100/160 CE-M
C926 0.082 MYL-K
T901
C920 100/16 CE-M
R914 4.7 RD1/8J
C924 0.0047 MYL-K
R922 220 RS1J
D915 SM1XP2
R921 10K
24
C914 0.22 MYL-K
ZERO CROSS
SOFT START
Vcc
OUT
ERROR AMP
ID MONITOR
AC MONITOR
GND
I901 TDA4605-3
C925 0.47/160 CE-M
R917 91K RD1/2J
R925 27K RK1/8F
R926 27K RK1/8F
R928 5K-B
R919 330
R923 220 RK1/8F
R927 15K RK1/8F
R920 180K RK1/8J
R924 3.3K RK1/8F
R908 33K RS2J
R951 1.0 RW2K
Q951 CR5AS-8
R952 1K
C952 10/16 CE-M
D951 HZS7B-2L
R955 33K RS2J
R954 33K RS2J
R956 680 RD1/8J
T903
C939
T902
LIVE
COLD
* ( ) : ONLY FOR 35UX80B
R948 0.22 RS1J
L931 100 LA-K
R942 270 RD1/8J
R947 1K
C944 100/6.3 CE-M
K918 EXCEPT FOR 35UX80B
C932 3300/25 CE-M *(470/25)
Q945 2SA673 (C/D)
L932
C934 330P/500 CK-K
R946 4.7K
D910 FML-G12S *(D2L20U)
CE-M 10/16 C940
R940 27K
I902 TLP-541G
R944 680 RD1/4J
Q941 2SC458 (C/D)
R945 1K RD1/8J
R943 2.2K
C942 1/50 CE-M
PNH3
X-ray
H. OSC
+9V(B/U)
ON/OFF
+10V(S.B)
+12V(S.S)
D935 AM01Z
C930 220/25 CE-M
I931 AN7810F
C938 1/50 CE-M
C937 100/16 CE-M
R974 0.15 RS2J
R975 1K
C977 100/6.3 CE-M
Q963 2SA844 (D/E)
D977 HZS24-3L
D978 HZS24-3L
R976 1K RD1/8J
D979 AM01Z
C975
D975 FML-G12S
C976 1000/63
R980 3.3K RS2J
T961
L975
L968
R962 100K RD1/2J
R963 100K RD1/2J
D965 HZS24-2
R964 8.2K
C965 0.0047/630
L935 10
PNS1
Svcc2
Svcc2
GND
GND


POWER PART
POWER PART
LIVE
COLD
H. OSC
+9V(B/U)
ON/OFF
+10V(S.B)
+12V(S.S)
PNS1
Svcc2
Svcc2
GND
GND
GND
C
D
E
3
4
5
6
R919 330
R923 220 RK1/8F
R927 15K RK1/8F
R928 5K-B
R944 680 RD1/4J
Q941 2SC458 (C/D)
R945 1K RD1/8J
R943 2.2K
C942 1/50 CE-M
R920 180K RK1/8J
R924 3.3K RK1/8F
D935 AM01Z
C930 220/25 CE-M
I931 AN7810F
C938 1/50 CE-M
C937 100/16 CE-M
R974 0.15 RS2J
R975 1K
C977 100/6.3 CE-M
Q963 2SA844 (D/E)
D977 HZS24-3L
D978 HZS24-3L
R976 1K RD1/8J
D979 AM01Z
C975
D975 FML-G12S
L975
C976 1000/63 CE-M
R980 3.3K RS2J
L935 10
T961
L968
L967
R962 100K RD1/2J
R963 100K RD1/2J
D965 HZS24-2
R964 8.2K RK7J
C965 0.0047/630 PP-K
D967 EG01C
Q961 2SK1101-01M
R965 39 RD1/8J
C967 0.1 MYL-K
C968 0.001 MYL-K
D966 AM01Z
R967 68 RS1J
D968 SM1XP2
R970 18K RK1/8F
C966 100/25 CE-M
R969 2.4K RK1/8F
C969 22/25 CE-M
R968 0.1 RS2K
R977 0.47 RS1J
C978 100/6.3 CE-M
R978 1K
L976 39
C979
Q964 2SA673 (C/D)
D976 02L20U
L977
C974 1000/25 CE-M
R979 470 RD1/8J
I962 PS2501-1
R966 10K RD1/8J
SOFT START
CT
Vcc
OUT
CONTROL IN
FB
CURRENT SENSE
GND
I961
C972 1000P CK-K
R972 33K
C970 0.1 MYL-K
C971 0.01 MYL-K
R973 180
T991
D991 S1NB20
C991 1000/35 CE-M

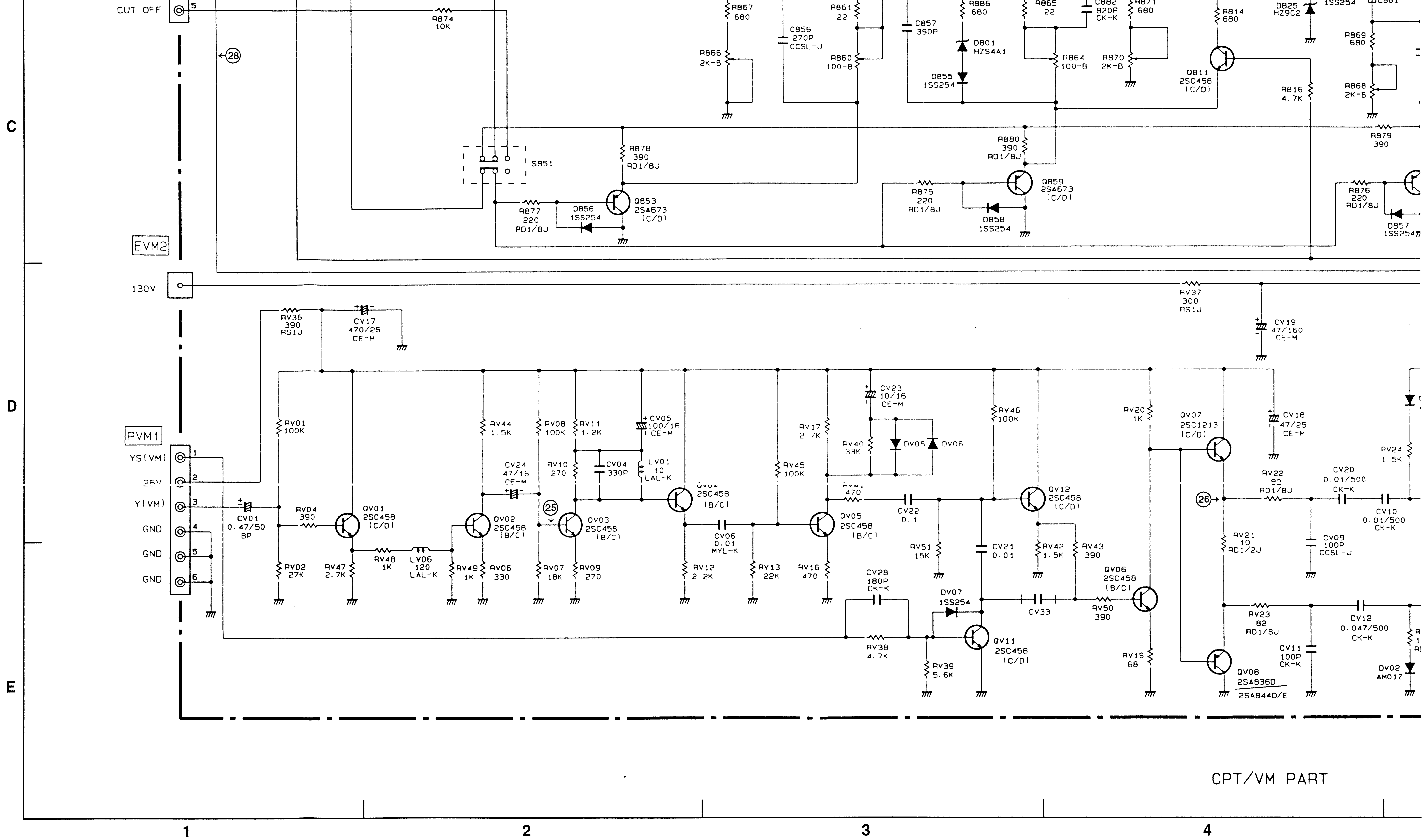
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.
- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.

CIRCUIT SCHEMATIC DIAGRAM OF 35UX80B/CZ58, 35UX70B/CZ57, 35UX70BA/CZ57P, 35TX79K/CZ56, 32UX8B/CY58

PROD
any of
throug



1
2
3
4
A
B
C
PY1
+12V
-Y
GND
B-Y
G-Y
R-Y
WB
R823 10K RD1/8J
R851 2.7K RS2J
R802 2.7K RS2J
L854 100 LA-K
R820 1K RD1/8J
30
Q851 2SC3942
L857
R811 47 RD1/8J
D820 HZS2ALL
R889 100 RD1/4J
C876 1000P CK-K
C866 0.01 MYL-K
R854 1K RD1/2J
L851 27 LA-K
R853 2.7K RS2J
R804 2.7K RS2J
L856 100 LA-K
R822 1K RD1/8J
31
Q857 2SC3942
R856 1K RD1/2J
L853 27 LA-K
R852 2.7K RS2J
R803 2.7K RS2J
L855 100 LA-K
R890 100 RD1/4J
C875 1000P CK-K
D821 HZS2ALL
L859
R812 47 RD1/8J
C851 100/16 CE-M
R857 330 RD1/8J
Q852 2SC458 (B/C)
C877 100P CCSL-J
D823 HZ9C2
D804 1SS254
L860
32
Q854 2SC3942
R891 100 RD1/4J
C874 1000P CK-K
L858
R813 47 RD1/8J
PY2
+200V
GND
HEATER
CUT OFF
C859 4.7/250 CE-M
R801 330 RD1/8J
D826 HZ9C2
C880 820P CK-K
Q858 2SC458 (B/C)
C879 100P CCSL-J
D805 1SS254
R858 330 RD1/8J
D822 HZS2ALL
Q855 2SC458 (B/C)
L862
D825 HZ9C2
D806 1SS254
L861
R874 10K
28
R867 680
R866 2K-B
C856 270P CCSL-J
R861 22
R860 100-B
C857 390P
R886 680
D801 HZS4A1
D855 1SS254
R865 22
R864 100-B
C882 820P CK-K
R871 680
R870 2K-B
R814 680
Q811 2SC458 (C/D)
R816 4.7K
R869 680
R868 2K-B
R879 390
S851
R878 390 RD1/8J
Q853 2SA673 (C/D)
R877 220 RD1/8J
D856 1SS254
R880 390 RD1/8J
Q859 2SA673 (C/D)
R875 220 RD1/8J
D858 1SS254
R876 220 RD1/8J
D857 1SS254
EVM2
130V
RV37 300 RS1J
CV19 47/160 CE-M
RV36 390 RS1J
CV17 470/25 CE-M
CV23


CUT OFF
5
R874
10K
28
R867
680
R866
2K-B
C856
270P
CCSL-J
R861
22
R860
100-B
C857
390P
R886
680
D801
HZS4A1
D855
1SS254
R865
22
C882
820P
CK-K
R864
100-B
R871
680
R870
2K-B
R814
680
Q811
2SC458
(C/D)
D825
HZ9C2
1SS254
R869
680
R868
2K-B
R816
4.7K
R879
390
S851
R878
390
RD1/8J
R880
390
RD1/8J
Q859
2SA673
(C/D)
R875
220
RD1/8J
D858
1SS254
R876
220
RD1/8J
D857
1SS254
R877
220
RD1/8J
D856
1SS254
Q853
2SA673
(C/D)
EVM2
130V
RV37
300
RS1J
CV19
47/160
CE-M
RV36
390
RS1J
CV17
470/25
CE-M
PVM1
YS(VM)
25V
Y(VM)
GND
GND
GND
1
2
3
4
5
6
CV01
0.47/50
BP
RV01
100K
RV04
390
QV01
2SC458
(C/D)
RV02
27K
RV47
2.7K
RV48
1K
LV06
120
LAL-K
RV49
1K
RV44
1.5K
CV24
47/16
CE-M
QV02
2SC458
(B/C)
RV06
330
RV08
100K
25
RV07
18K
RV11
1.2K
RV10
270
CV04
330P
QV03
2SC458
(B/C)
RV09
270
CV05
100/16
CE-M
LV01
10
LAL-K
QV04
2SC458
(B/C)
RV12
2.2K
CV06
0.01
MYL-K
RV13
22K
RV45
100K
RV17
2.7K
RV40
33K
CV23
10/16
CE-M
DV05
DV06
RV41
470
QV05
2SC458
(B/C)
RV16
470
CV22
0.1
RV51
15K
CV28
180P
CK-K
DV07
1SS254
RV38
4.7K
RV39
5.6K
QV11
2SC458
(C/D)
CV21
0.01
RV46
100K
QV12
2SC458
(C/D)
RV42
1.5K
RV43
390
CV33
RV50
390
QV06
2SC458
(B/C)
RV20
1K
RV19
68
QV07
2SC1213
(C/D)
CV18
47/25
CE-M
26
RV22
82
RD1/8J
RV21
10
RD1/2J
CV09
100P
CCSL-J
CV20
0.01/500
CK-K
CV10
0.01/500
CK-K
RV24
1.5K
RV23
82
RD1/8J
CV11
100P
CK-K
CV12
0.047/500
CK-K
QV08
2SA836D
2SA844D/E
DV02
AM01Z
C
D
E
1
2
3
4

CPT/VM PART

CIRCUIT SCHEMATIC DIAGRAM OF 35UX80B/CZ58, 35UX70B/CZ57, 35UX70BA/CZ57P, 35TX79K/CZ56, 32UX8B/CY58

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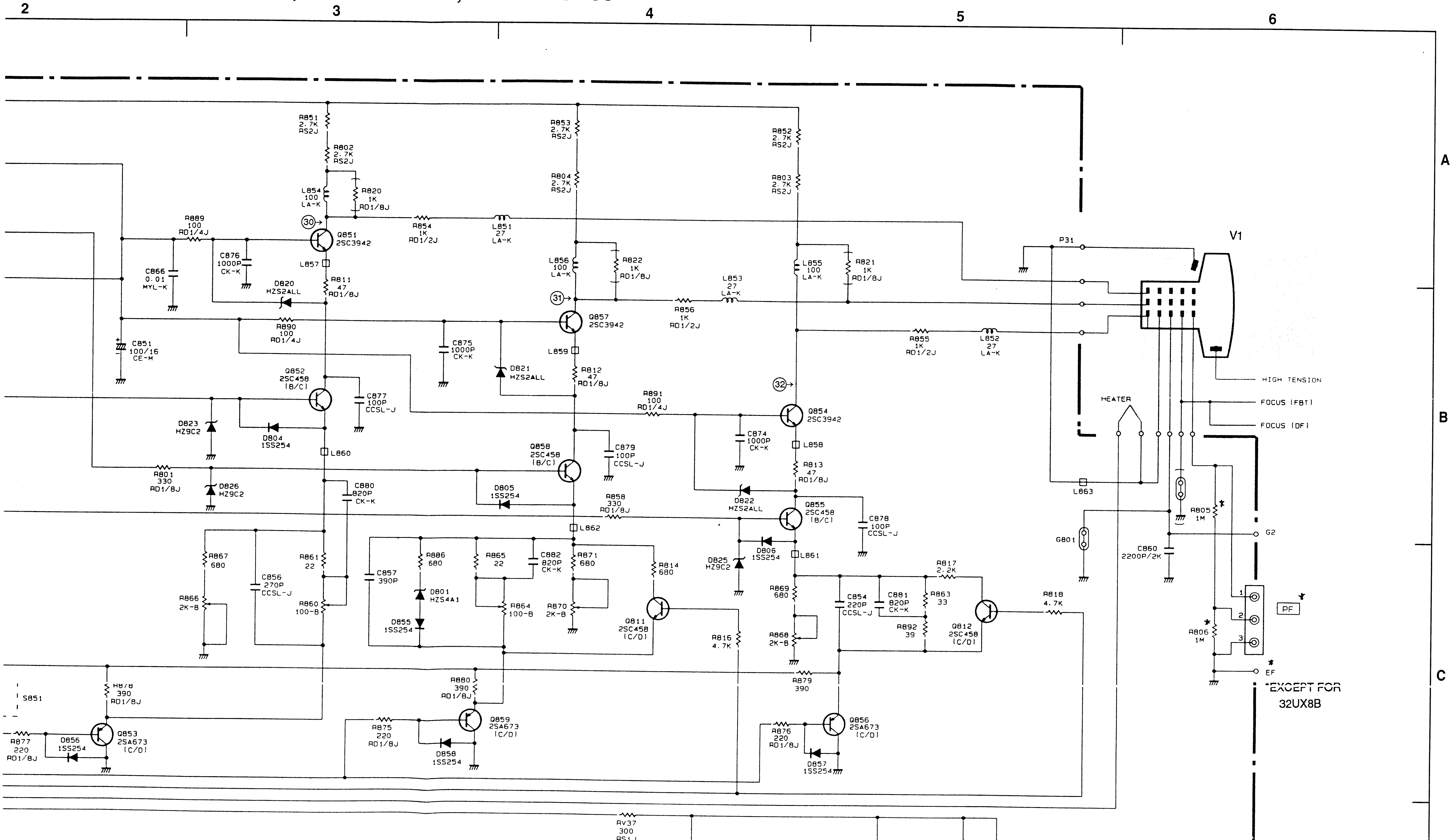
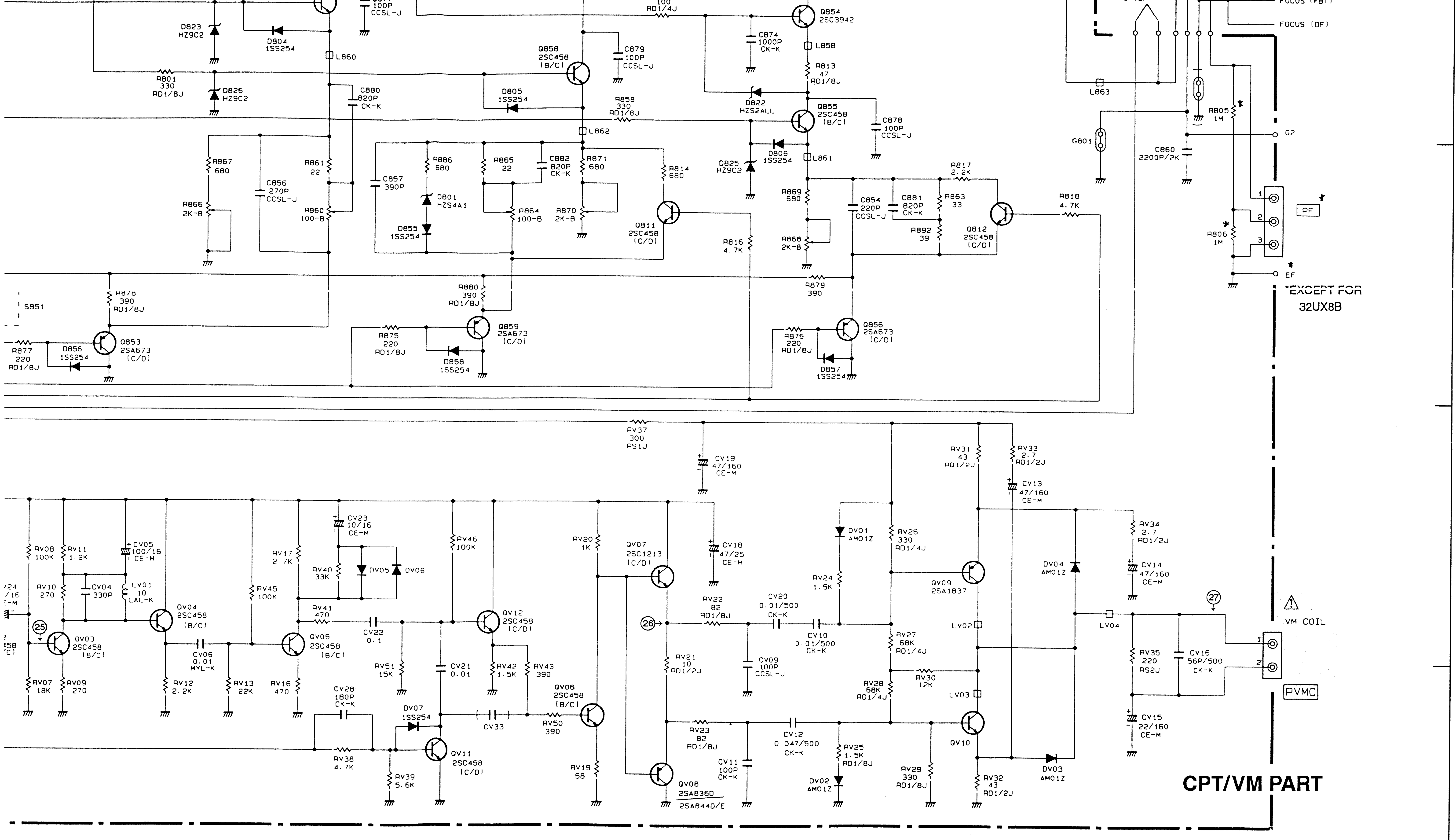

2
3
4
5
6
A
B
C
R851 2.7K RS2J
R802 2.7K RS2J
L854 100 LA-K
R820 1K RD1/8J
R889 100 RD1/4J
30
Q851 2SC3942
C876 1000P CK-K
C866 0.01 MYL-K
L857
R811 47 RD1/8J
D820 HZS2ALL
R890 100 RD1/4J
C851 100/16 CE-M
Q852 2SC458 (B/C)
C877 100P CCSL-J
D823 HZ9C2
D804 1SS254
L860
R801 330 RD1/8J
D826 HZ9C2
C880 820P CK-K
R867 680
C856 270P CCSL-J
R861 22
R866 2K-B
R860 100-B
R878 390 RD1/8J
S851
R877 220 RD1/8J
D856 1SS254
Q853 2SA673 (C/D)
R854 1K RD1/2J
L851 27 LA-K
R853 2.7K RS2J
R804 2.7K RS2J
L856 100 LA-K
R822 1K RD1/8J
31
Q857 2SC3942
C875 1000P CK-K
D821 HZS2ALL
L859
R812 47 RD1/8J
Q858 2SC458 (B/C)
C879 100P CCSL-J
D805 1SS254
R858 330 RD1/8J
L862
C857 390P
R886 680
D801 HZS4A1
D855 1SS254
R865 22
C882 820P CK-K
R871 680
R864 100-B
R870 2K-B
R814 680
Q811 2SC458 (C/D)
R880 390 RD1/8J
R875 220 RD1/8J
Q859 2SA673 (C/D)
D858 1SS254
R852 2.7K RS2J
R803 2.7K RS2J
L855 100 LA-K
R821 1K RD1/8J
R856 1K RD1/2J
L853 27 LA-K
R891 100 RD1/4J
32
Q854 2SC3942
C874 1000P CK-K
L858
R813 47 RD1/8J
D822 HZS2ALL
Q855 2SC458 (B/C)
C878 100P CCSL-J
D825 HZ9C2
D806 1SS254
L861
R869 680
R868 2K-B
R816 4.7K
C854 220P CCSL-J
C881 820P CK-K
R863 33
R892 39
R817 2.2K
Q812 2SC458 (C/D)
R818 4.7K
R879 390
R876 220 RD1/8J
Q856 2SA673 (C/D)
D857 1SS254
R855 1K RD1/2J
L852 27 LA-K
RV37 300 RS1J
P31
V1
HIGH TENSION
FOCUS (FBT)
FOCUS (DF)
HEATER
L863
G801
R805 1M *
C860 2200P/2K
G2
R806 1M *
1
2
3
PF *
EF *
*EXCEPT FOR 32UX8B

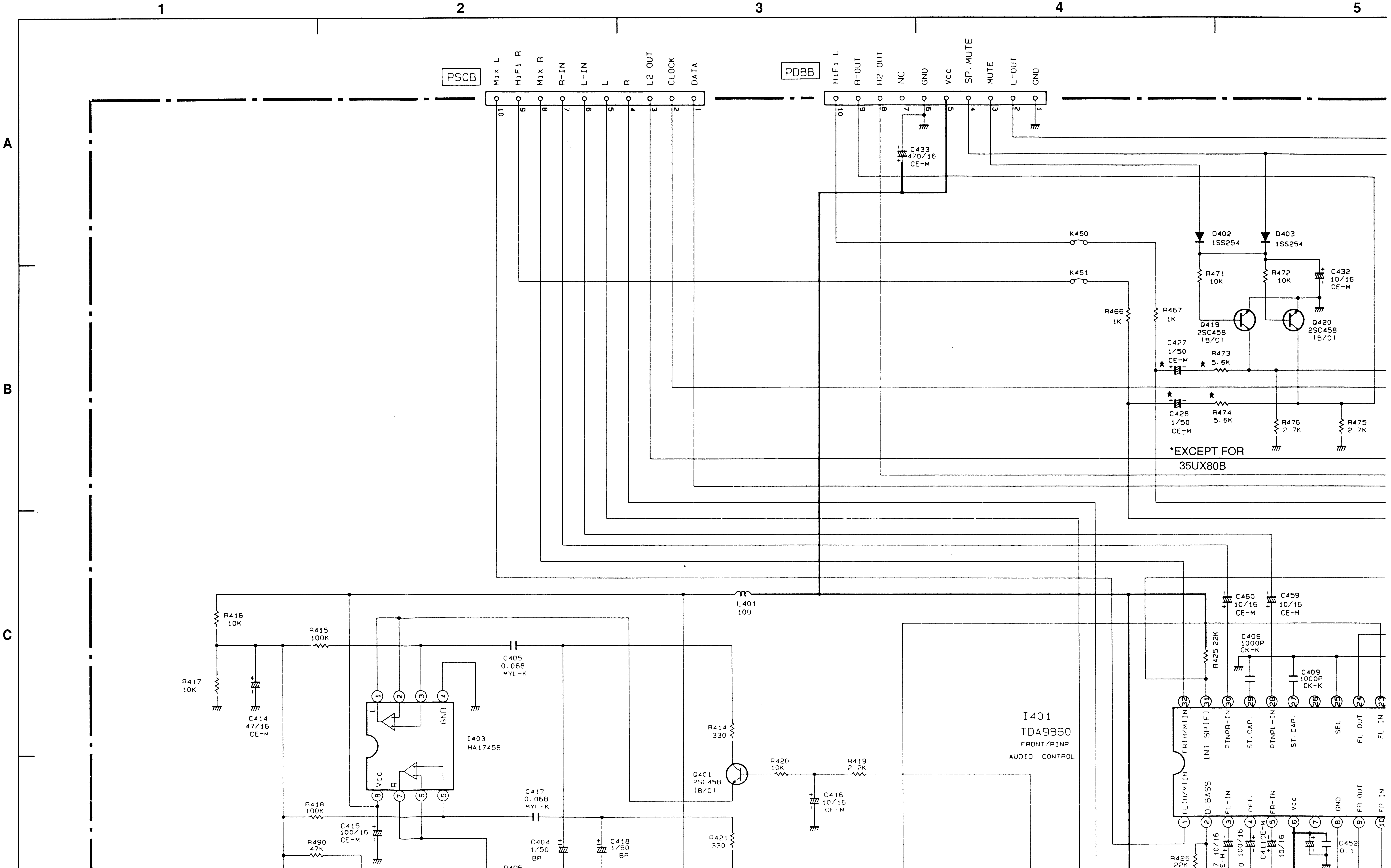

D823
HZ9C2
D804
1SS254
L860
100P
CCSL-J
100
RD1/4J
Q854
2SC3942
C874
1000P
CK-K
L858
R813
47
RD1/8J
FOCUS (FBT)
FOCUS (DF)
Q858
2SC458
(B/C)
C879
100P
CCSL-J
R801
330
RD1/8J
D826
HZ9C2
C880
820P
CK-K
D805
1SS254
R858
330
RD1/8J
D822
HZS2ALL
Q855
2SC458
(B/C)
C878
100P
CCSL-J
L863
R805
1M
G2
G801
C860
2200P/2K
L862
R867
680
C856
270P
CCSL-J
R861
22
C857
390P
R886
680
D801
HZS4A1
R865
22
C882
820P
CK-K
R871
680
R814
680
D825
HZ9C2
D806
1SS254
L861
R817
2.2K
R866
2K-B
R860
100-B
D855
1SS254
R864
100-B
R870
2K-B
Q811
2SC458
(C/D)
R869
680
C854
220P
CCSL-J
C881
820P
CK-K
R863
33
R892
39
Q812
2SC458
(C/D)
R818
4.7K
PF
R806
1M
R816
4.7K
R868
2K-B
EF
*EXCEPT FOR
32UX8B
R878
390
RD1/8J
S851
R880
390
RD1/8J
R879
390
Q853
2SA673
(C/D)
R877
220
RD1/8J
D856
1SS254
R875
220
RD1/8J
Q859
2SA673
(C/D)
D858
1SS254
R876
220
RD1/8J
Q856
2SA673
(C/D)
D857
1SS254
RV37
300
RS1J
CV19
47/160
CE-M
RV31
43
RD1/2J
RV33
2.7
RD1/2J
CV13
47/160
CE-M
CV23
10/16
CE-M
RV08
100K
RV11
1.2K
CV05
100/16
CE-M
RV10
270
CV04
330P
LV01
10
LAL-K
QV04
2SC458
(B/C)
RV45
100K
RV17
2.7K
RV40
33K
DV05
DV06
RV46
100K
RV20
1K
QV07
2SC1213
(C/D)
CV18
47/25
CE-M
DV01
AM01Z
RV26
330
RD1/4J
RV34
2.7
RD1/2J
CV14
47/160
CE-M
DV04
AM01Z
QV09
2SA1837
RV24
1.5K
RV22
82
RD1/8J
CV20
0.01/500
CK-K
CV10
0.01/500
CK-K
LV02
LV04
VM COIL
QV03
2SC458
(B/C)
CV06
0.01
MYL-K
QV05
2SC458
(B/C)
RV41
470
CV22
0.1
QV12
2SC458
(C/D)
RV21
10
RD1/2J
CV09
100P
CCSL-J
RV27
68K
RD1/4J
RV35
220
RS2J
CV16
56P/500
CK-K
PVMC
RV07
18K
RV09
270
RV12
2.2K
RV13
22K
RV16
470
RV51
15K
CV21
0.01
RV42
1.5K
RV43
390
QV06
2SC458
(B/C)
RV28
68K
RD1/4J
RV30
12K
LV03
CV28
180P
CK-K
DV07
1SS254
CV33
RV50
390
RV23
82
RD1/8J
CV12
0.047/500
CK-K
RV25
1.5K
RD1/8J
QV10
CV15
22/160
CE-M
RV38
4.7K
QV11
2SC458
(C/D)
RV39
5.6K
RV19
68
CV11
100P
CK-K
QV08
2SA8360
2SA8440/E
DV02
AM01Z
RV29
330
RD1/8J
RV32
43
RD1/2J
DV03
AM01Z
CPT/VM PART
25
26
27
B
C
D
E
2
3
4
5
6

CPT/VM PART

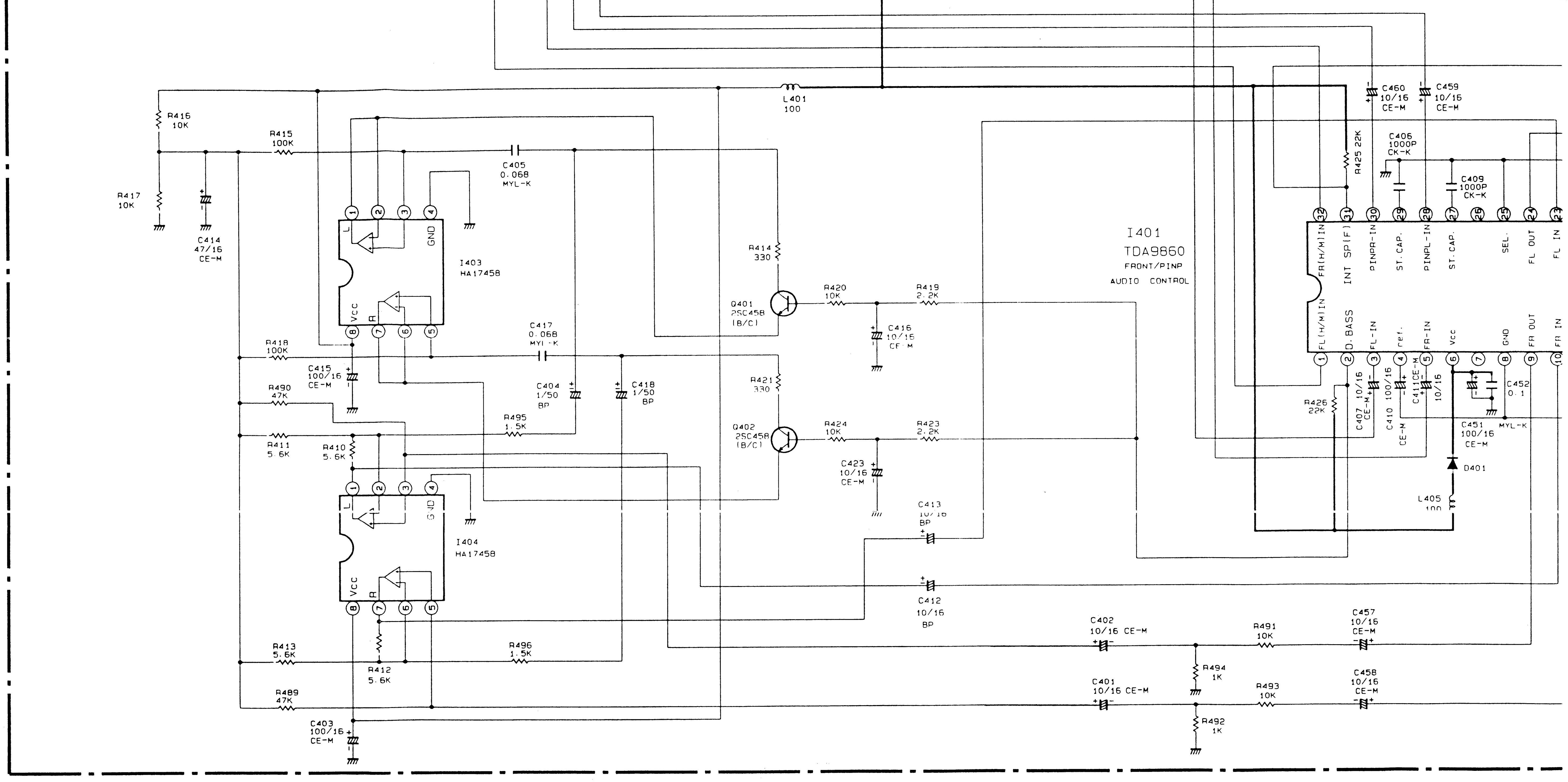
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.
- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.

CIRCUIT SCHEMATIC DIAGRAM OF 35UX80B/CZ58, 35UX70B/CZ57, 35UX70BA/CZ57P, 35TX79K/CZ56, 32UX8B/CY58

PRODUCT SAFET
any of these compo
through improper s



1
2
3
4
5
A
B
C
PSCB
Mix L
HiFi R
Mix R
R-IN
L-IN
L
R
L2 OUT
CLOCK
DATA
10
9
8
7
6
5
4
3
2
1
PDBB
HiFi L
R-OUT
R2-OUT
NC
GND
Vcc
SP. MUTE
MUTE
L-OUT
GND
C433
470/16
CE-M
K450
K451
D402
1SS254
D403
1SS254
R471
10K
R472
10K
C432
10/16
CE-M
R466
1K
R467
1K
Q419
2SC458
(B/C)
Q420
2SC458
(B/C)
C427
1/50
CE-M
R473
5.6K
C428
1/50
CE-M
R474
5.6K
R476
2.7K
R475
2.7K
*EXCEPT FOR
35UX80B
L401
100
R416
10K
R415
100K
C405
0.068
MYL-K
R417
10K
C414
47/16
CE-M
I403
HA17458
L
GND
Vcc
R
R414
330
Q401
2SC458
(B/C)
R420
10K
R419
2.2K
C416
10/16
CE-M
R418
100K
C415
100/16
CE-M
C417
0.068
MYL-K
R490
47K
C404
1/50
BP
C418
1/50
BP
R421
330
R495
I401
TDA9860
FRONT/PINP
AUDIO CONTROL
C460
10/16
CE-M
C459
10/16
CE-M
R425 22K
C406
1000P
CK-K
C409
1000P
CK-K
FR(H/M)IN
INT SP(F)
PINPR-IN
ST.CAP.
PINPL-IN
ST.CAP.
SEL.
FL OUT
FL IN
FL(H/M)IN
D.BASS
FL-IN
ref.
FR-IN
Vcc
GND
FR OUT
FR IN
32
31
30
29
28
27
26
25
24
23
1
2
3
4
5
6
7
8
9
10
R426
22K
10/16
100/16
C411CE-M
10/16
C452
0.1


C
D
E
R416 10K
R415 100K
R417 10K
C414 47/16 CE-M
C405 0.068 MYL-K
L401 100
C460 10/16 CE-M
C459 10/16 CE-M
R425 22K
C406 1000P CK-K
C409 1000P CK-K
I403 HA17458
L
R
Vcc
GND
R414 330
Q401 2SC458 (B/C)
R420 10K
R419 2.2K
C416 10/16 CE-M
I401
TDA9860
FRONT/PINP
AUDIO CONTROL
FR(H/M)IN
INT SP(F)
PINPR-IN
ST.CAP.
PINPL-IN
ST.CAP.
SEL.
FL OUT
FL IN
FL(H/M)IN
D.BASS
FL-IN
ref.
FR-IN
Vcc
GND
FR OUT
FR IN
R418 100K
C417 0.068 MYL-K
C415 100/16 CE-M
C404 1/50 BP
C418 1/50 BP
R421 330
R490 47K
R495 1.5K
Q402 2SC458 (B/C)
R424 10K
R423 2.2K
R426 22K
C407 10/16 CE-M
C410 100/16 CE-M
C411 CE-M 10/16
C452 0.1 MYL-K
C451 100/16 CE-M
D401
L405 100
R411 5.6K
R410 5.6K
C423 10/16 CE-M
C413 10/16 BP
I404 HA17458
C412 10/16 BP
C402 10/16 CE-M
R491 10K
C457 10/16 CE-M
R413 5.6K
R412 5.6K
R496 1.5K
R494 1K
R489 47K
C401 10/16 CE-M
R493 10K
C458 10/16 CE-M
C403 100/16 CE-M
R492 1K
1
2
3
4
5

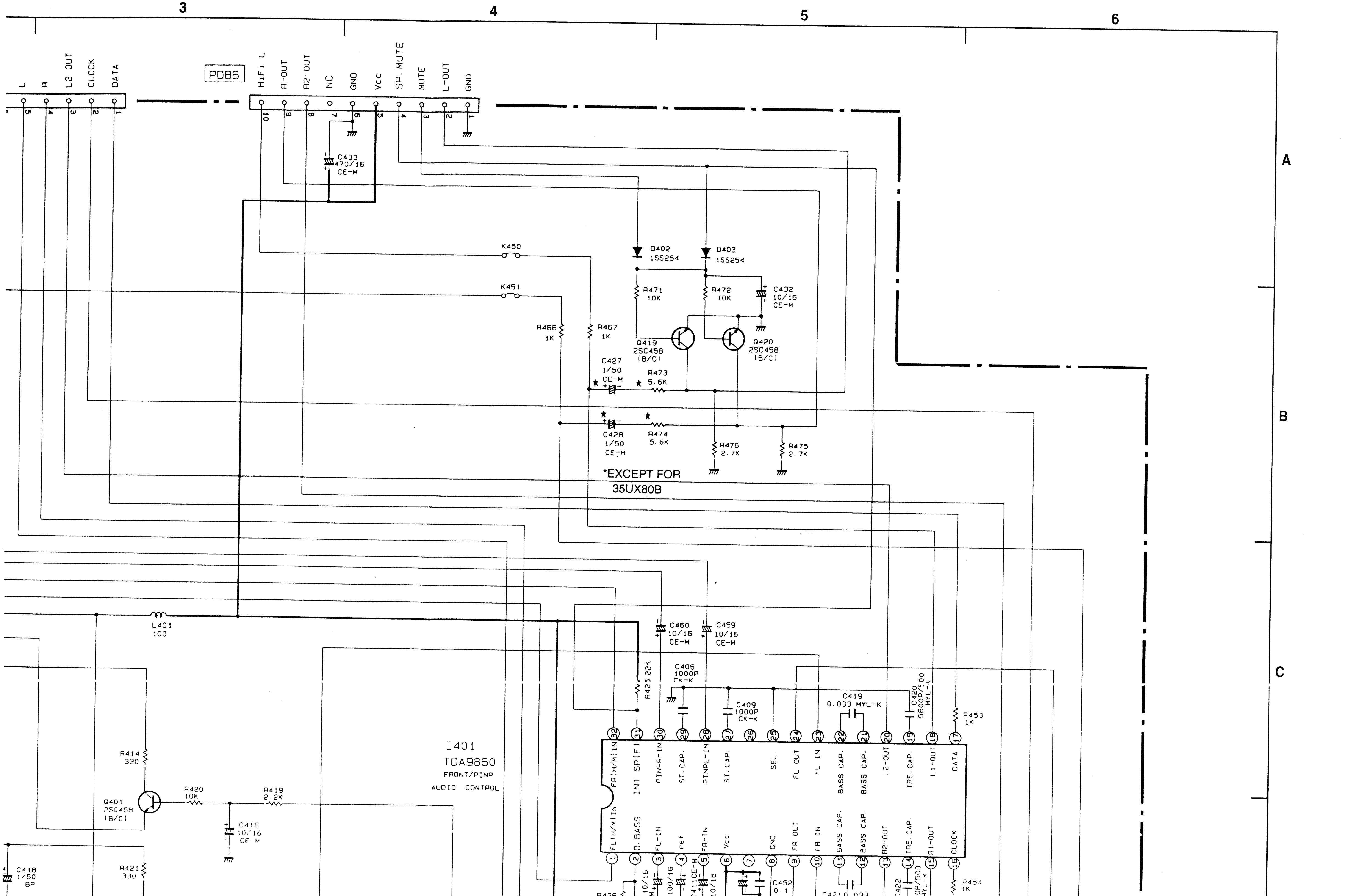
DYNAMIC

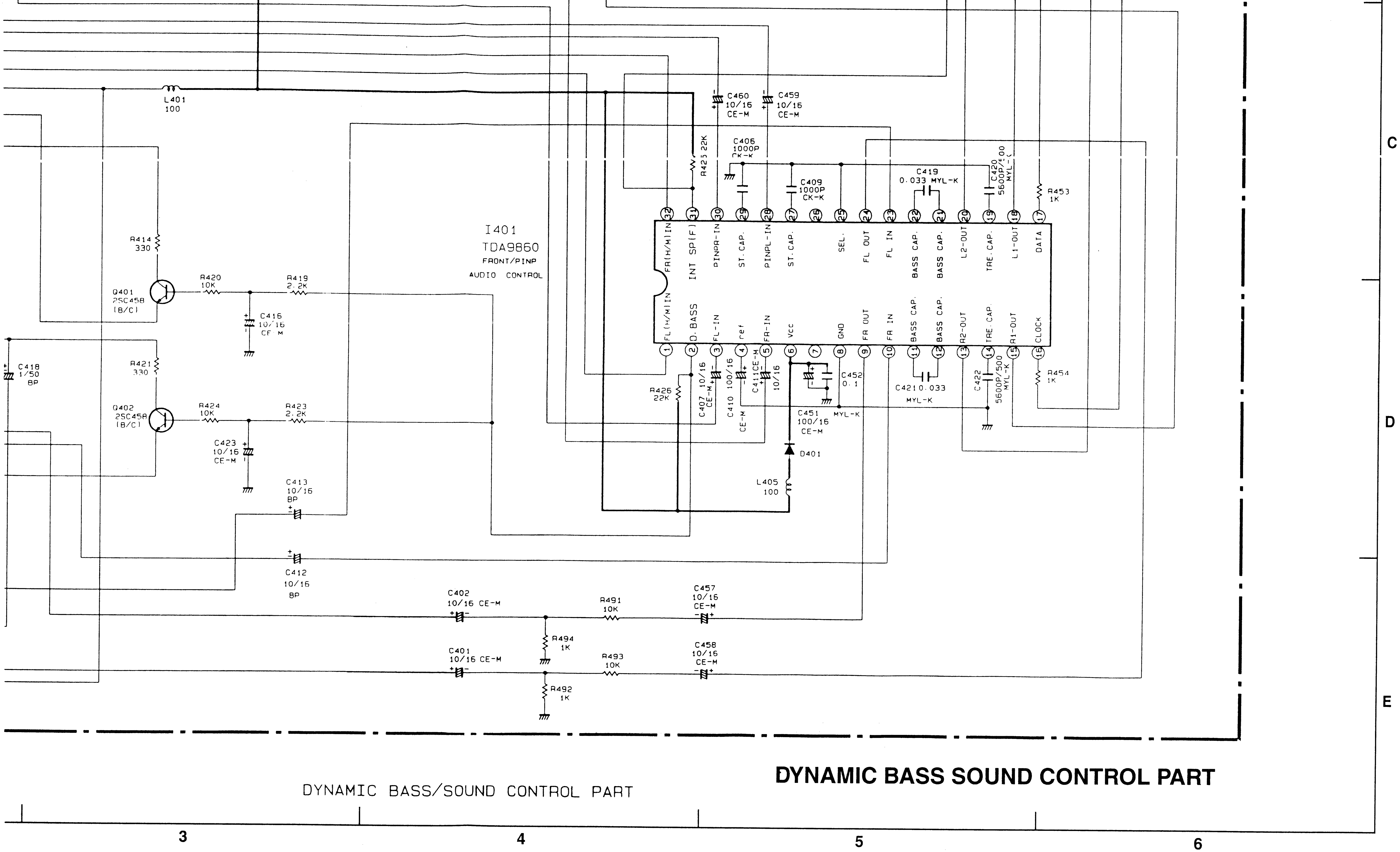
DYNAMIC BASS/SOUND CONTROL PART

- Since this is a basic circuit diagram, t
- All DC voltage to be measured with a

CIRCUIT SCHEMATIC DIAGRAM OF 35UX80B/CZ58, 35UX70B/CZ57, 35UX70BA/CZ57P, 35TX79K/CZ56, 32UX8B/CY58

PRODUCT SAFETY NOTE: Components marked with a ⚠ and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.


3
4
5
6
A
B
C
L
R
L2 OUT
CLOCK
DATA
PD88
HiFi L
R-OUT
R2-OUT
NC
GND
Vcc
SP. MUTE
MUTE
L-OUT
GND
C433
470/16
CE-M
K450
K451
D402
1SS254
D403
1SS254
R471
10K
R472
10K
C432
10/16
CE-M
R466
1K
R467
1K
Q419
2SC458
(B/C)
Q420
2SC458
(B/C)
C427
1/50
CE-M
R473
5.6K
C428
1/50
CE-M
R474
5.6K
R476
2.7K
R475
2.7K
*EXCEPT FOR
35UX80B
L401
100
C460
10/16
CE-M
C459
10/16
CE-M
R425 22K
C406
1000P
CK-K
C409
1000P
CK-K
C419
0.033 MYL-K
C420
5600P/500
MYL-K
R453
1K
I401
TDA9860
FRONT/PINP
AUDIO CONTROL
FR(H/M)IN
INT SP(F)
PINPR-IN
ST.CAP.
PINPL-IN
ST.CAP.
SEL.
FL OUT
FL IN
BASS CAP.
BASS CAP.
L2-OUT
TRE.CAP.
L1-OUT
DATA
FL(H/M)IN
D.BASS
FL-IN
ref
FR-IN
Vcc
GND
FR OUT
FR IN
BASS CAP.
BASS CAP.
R2-OUT
TRE.CAP.
R1-OUT
CLOCK
C452
0.1
C421
0.033
C422
R454
1K
R426
C411
CE-M
10/16
100/16
R414
330
Q401
2SC458
(B/C)
R420
10K
R419
2.2K
C416
10/16
CE-M
C418
1/50
BP
R421
330

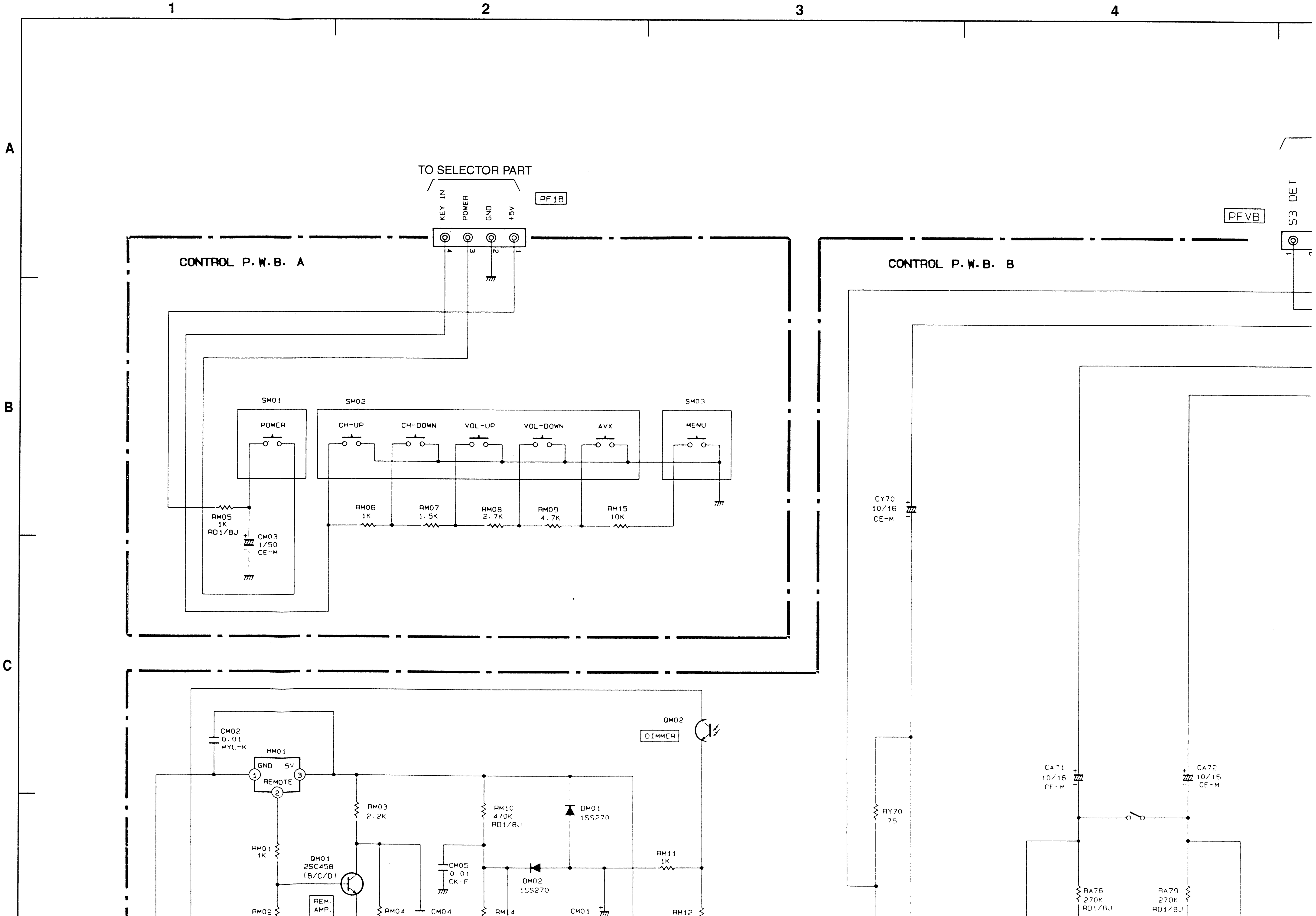

L401
100
R414
330
Q401
2SC458
(B/C)
R420
10K
R419
2.2K
C416
10/16
CE-M
R421
330
Q402
2SC458
(B/C)
R424
10K
R423
2.2K
C423
10/16
CE-M
C418
1/50
BP
C413
10/16
BP
C412
10/16
BP
C402
10/16 CE-M
C401
10/16 CE-M
R494
1K
R492
1K
R491
10K
R493
10K
C457
10/16
CE-M
C458
10/16
CE-M
I401
TDA9860
FRONT/PINP
AUDIO CONTROL
C460
10/16
CE-M
C459
10/16
CE-M
R425 22K
C406
1000P
CK-K
C409
1000P
CK-K
C419
0.033 MYL-K
C420
5600P/500
MYL-K
R453
1K
FR(H/M)IN
INT SP(F)
PINPR-IN
ST.CAP.
PINPL-IN
ST.CAP.
SEL.
FL OUT
FL IN
BASS CAP.
BASS CAP.
L2-OUT
TRE.CAP.
L1-OUT
DATA
FL(H/M)IN
D.BASS
FL-IN
ref
FR-IN
Vcc
GND
FR OUT
FR IN
BASS CAP.
BASS CAP.
R2-OUT
TRE.CAP.
R1-OUT
CLOCK
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
R426
22K
C407 10/16
CE-M
C410 100/16
CE-M
C411CE-M
10/16
C451
100/16
CE-M
C452
0.1
MYL-K
C421 0.033
MYL-K
C422
5600P/500
MYL-K
R454
1K
D401
L405
100
DYNAMIC BASS/SOUND CONTROL PART
C
D
E
3
4
5
6

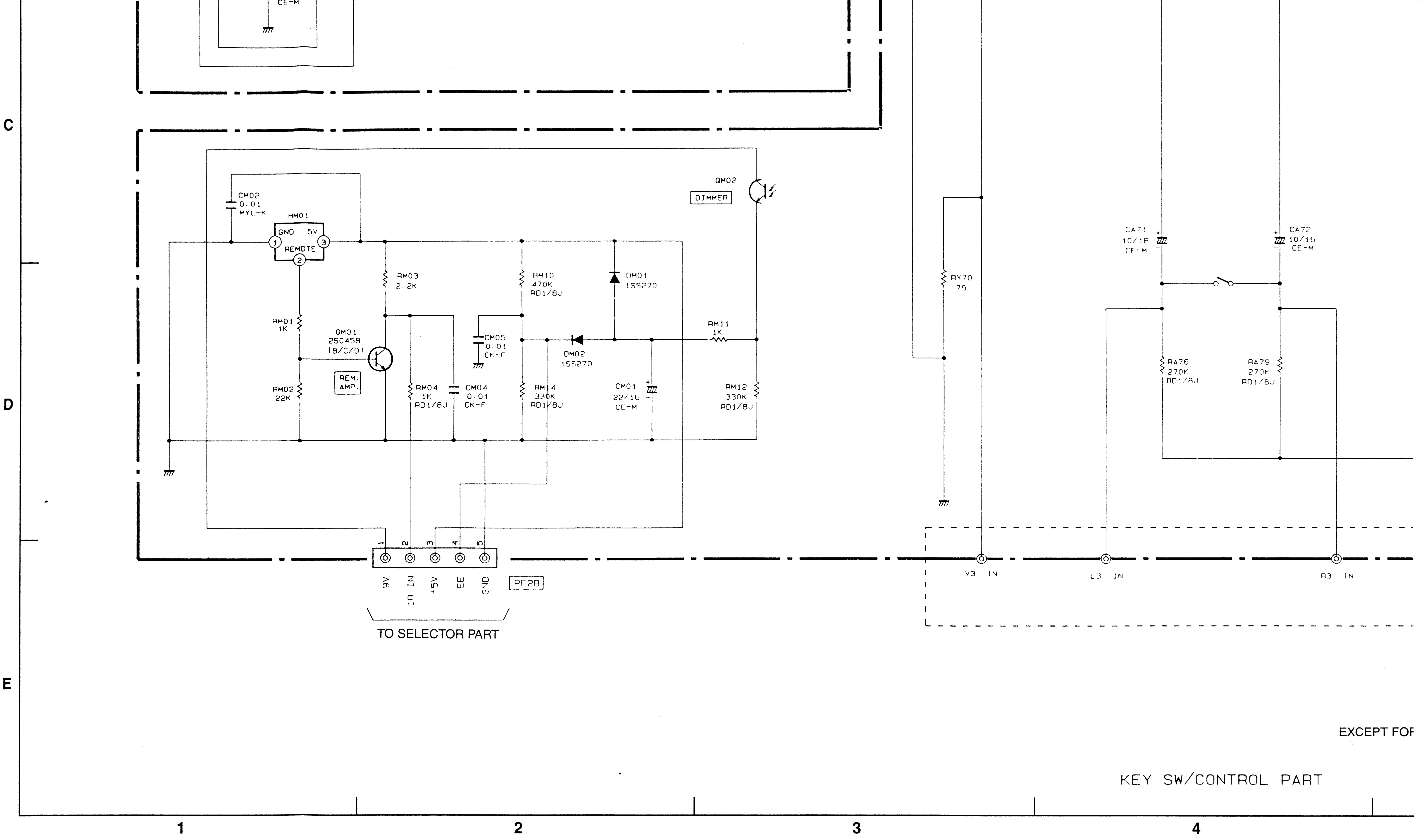
DYNAMIC BASS SOUND CONTROL PART

- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.
- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.

CIRCUIT SCHEMATIC DIAGRAM OF 35UX80B/CZ58, 35UX70B/CZ57, 35UX70BA/CZ57P, 32UX8B/CY58

PROD
any of
throug

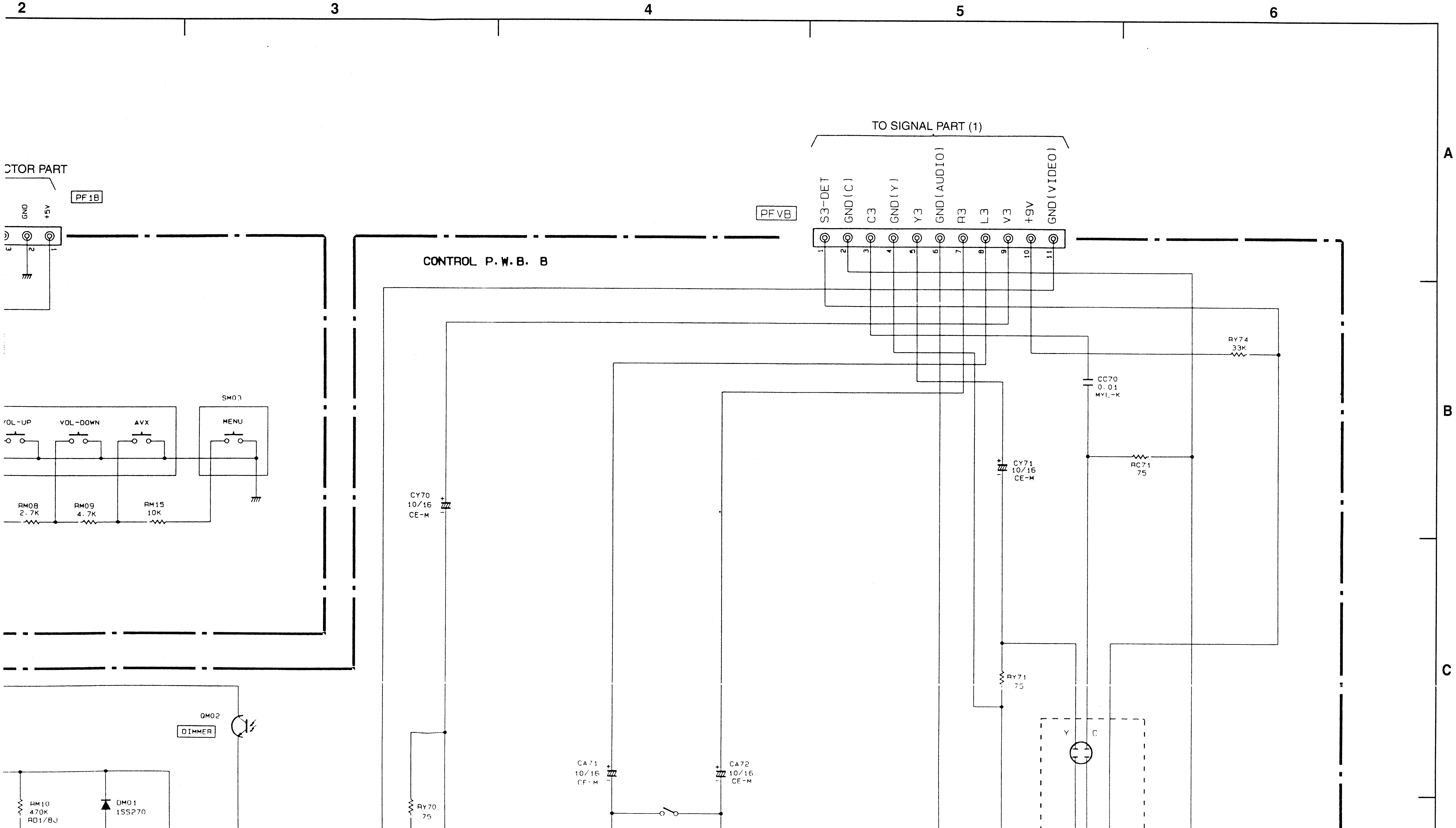

1
2
3
4
A
B
C
TO SELECTOR PART
KEY IN
POWER
GND
+5V
PF1B
4
3
2
1
CONTROL P.W.B. A
SM01
POWER
SM02
CH-UP
CH-DOWN
VOL-UP
VOL-DOWN
AVX
SM03
MENU
RM05
1K
RD1/8J
CM03
1/50
CE-M
RM06
1K
RM07
1.5K
RM08
2.7K
RM09
4.7K
RM15
10K
CM02
0.01
MYL-K
HM01
GND
5V
REMOTE
1
2
3
RM01
1K
QM01
2SC458
(B/C/D)
REM.
AMP.
RM02
RM03
2.2K
RM04
CM04
CM05
0.01
CK-F
RM10
470K
RD1/8J
RM14
DM01
1SS270
DM02
1SS270
CM01
RM11
1K
RM12
QM02
DIMMER
S3-DET
PFVB
CONTROL P.W.B. B
CY70
10/16
CE-M
RY70
75
CA71
10/16
CE-M
CA72
10/16
CE-M
RA76
270K
RD1/8J
RA79
270K
RD1/8J

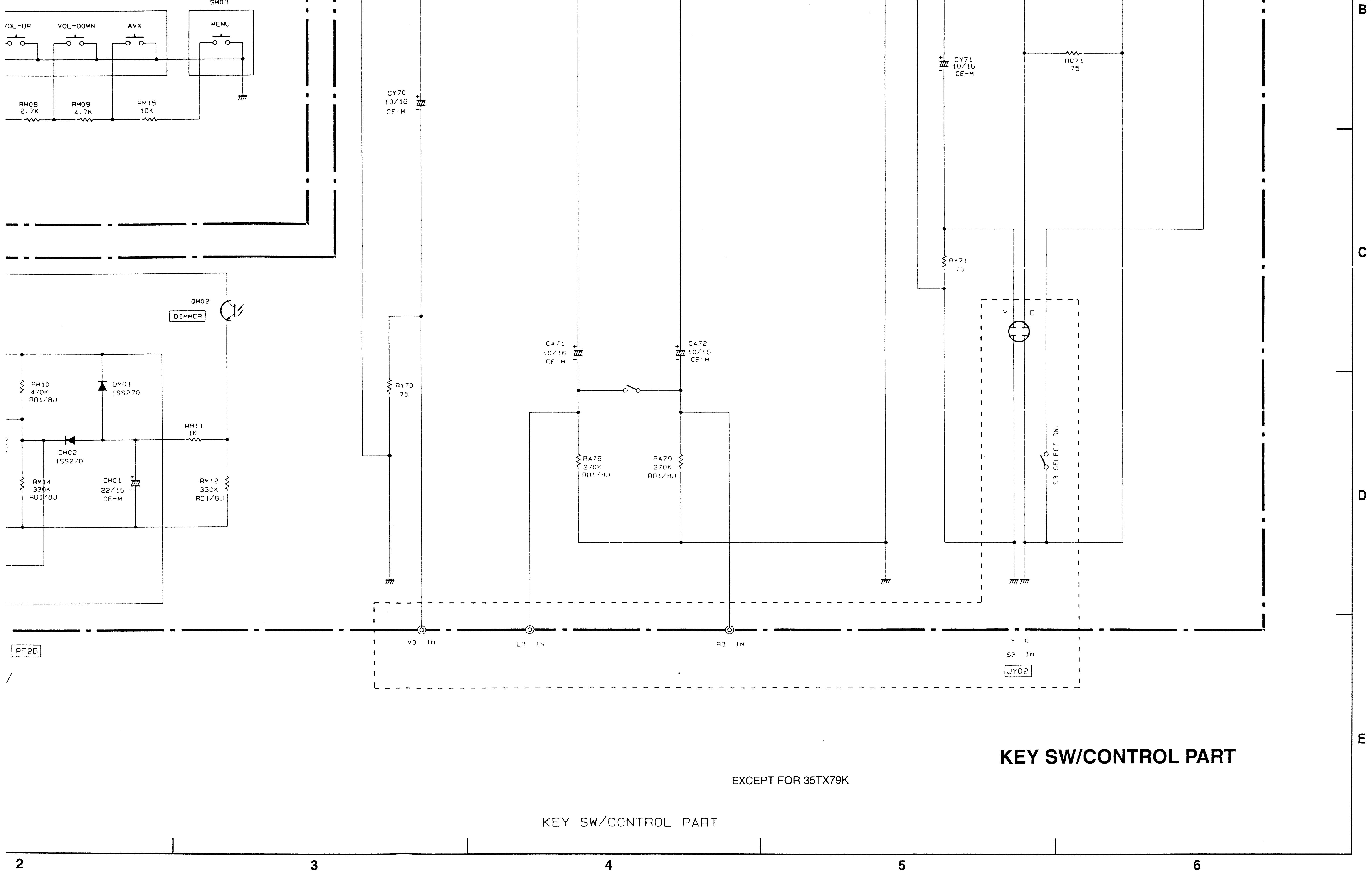

CE-M
C
D
E
CM02
0.01
MYL-K
HM01
GND
5V
REMOTE
1
2
3
RM03
2.2K
RM10
470K
RD1/8J
DM01
1SS270
QM02
DIMMER
RM01
1K
QM01
2SC458
(B/C/D)
REM.
AMP.
RM02
22K
CM05
0.01
CK-F
DM02
1SS270
RM11
1K
RM04
1K
RD1/8J
CM04
0.01
CK-F
RM14
330K
RD1/8J
CM01
22/16
CE-M
RM12
330K
RD1/8J
1
2
3
4
5
9V
IR-IN
+5V
EE
GND
PF2B
TO SELECTOR PART
RY70
75
CA71
10/16
CE-M
CA72
10/16
CE-M
RA76
270K
RD1/8J
RA79
270K
RD1/8J
V3 IN
L3 IN
R3 IN
EXCEPT FOR
KEY SW/CONTROL PART
1
2
3
4

• S
• A

CIRCUIT SCHEMATIC DIAGRAM OF 35UX80B/CZ58, 35UX70B/CZ57, 35UX70BA/CZ57P, 32UX8B/CY58

PRODUCT SAFETY NOTE: Components marked with a ⚠ and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.


2
3
4
5
6
A
B
C
TO SIGNAL PART (1)
CTOR PART
PF18
GND
+5V
3
2
1
PFVB
S3-DET
GND(C)
C3
GND(Y)
Y3
GND(AUDIO)
R3
L3
V3
+9V
GND(VIDEO)
1
2
3
4
5
6
7
8
9
10
11
CONTROL P.W.B. B
RY74
33K
CC70
0.01
MYL-K
SM03
VOL-UP
VOL-DOWN
AVX
MENU
CY71
10/16
CE-M
RC71
75
CY70
10/16
CE-M
RM08
2.7K
RM09
4.7K
RM15
10K
RY71
75
QM02
DIMMER
Y
C
CA71
10/16
CE-M
CA72
10/16
CE-M
RM10
470K
RD1/8J
DM01
1SS270
RY70
75


SM03
/OL-UP
VOL-DOWN
AVX
MENU
RM08
2.7K
RM09
4.7K
RM15
10K
CY70
10/16
CE-M
CY71
10/16
CE-M
RC71
75
RY71
75
QM02
DIMMER
RM10
470K
RD1/8J
DM01
1SS270
RM11
1K
DM02
1SS270
RM14
330K
RD1/8J
CM01
22/16
CE-M
RM12
330K
RD1/8J
RY70
75
CA71
10/16
CE-M
CA72
10/16
CE-M
RA75
270K
RD1/8J
RA79
270K
RD1/8J
Y
C
S3 SELECT SW.
V3 IN
L3 IN
R3 IN
Y C
S3 IN
JY02
PF2B
B
C
D
E
KEY SW/CONTROL PART
2
3
4
5
6

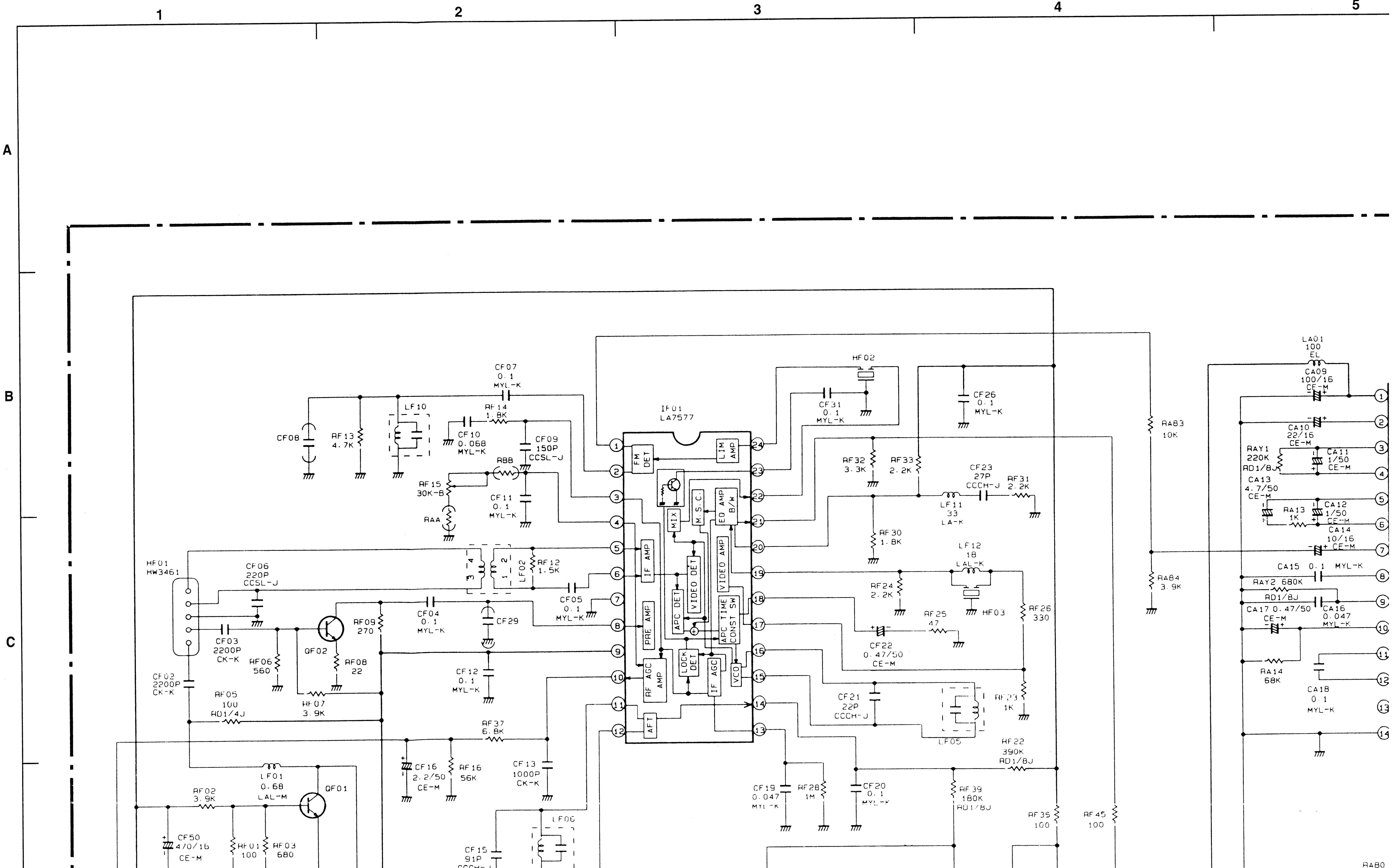
KEY SW/CONTROL PART

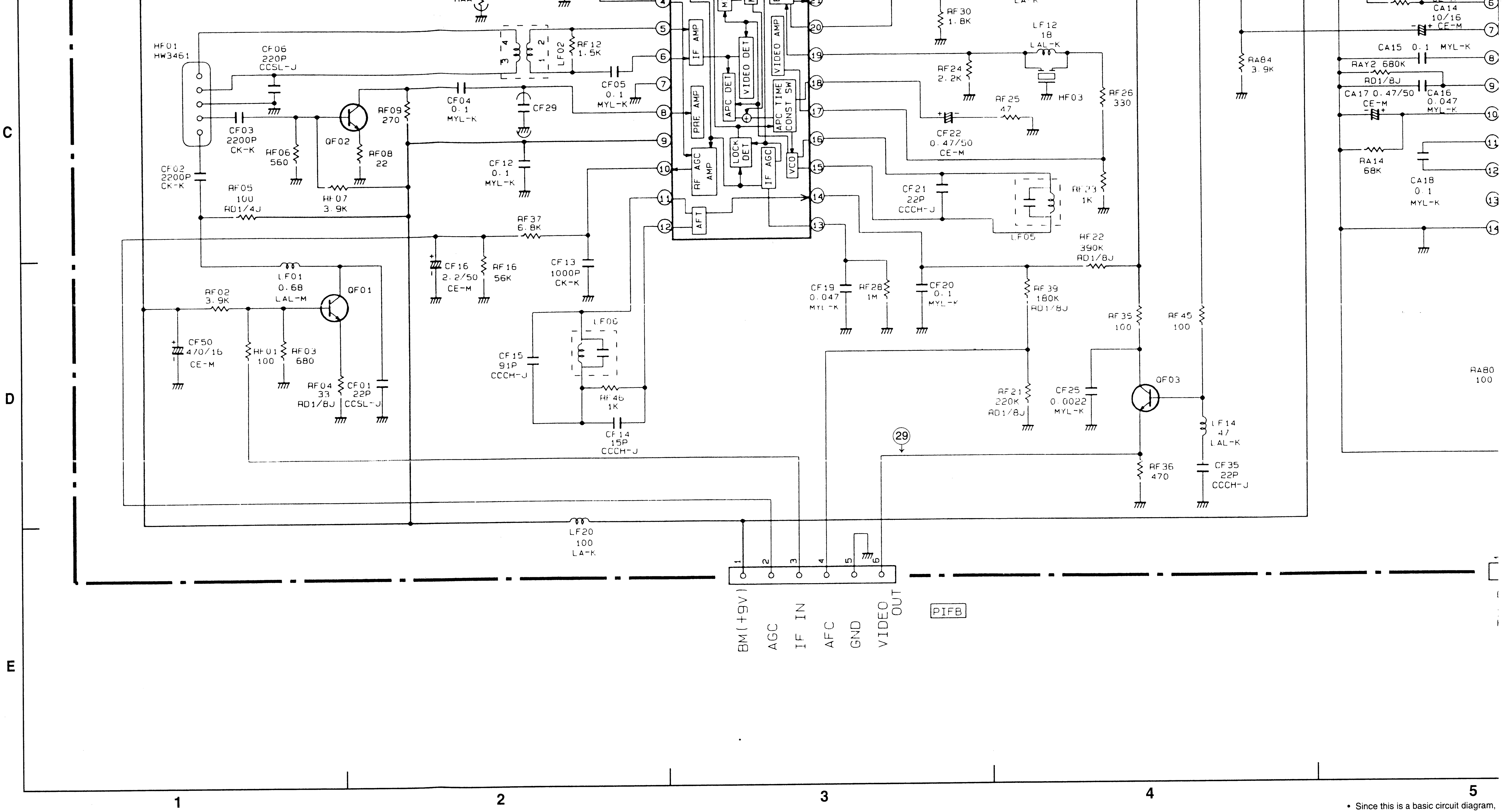
EXCEPT FOR 35TX79K

- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.
- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.

PRODUCT SAFETY
any of these compo
through improper se

CIRCUIT SCHEMATIC DIAGRAM OF 35UX80B/CZ58, 35UX70B/CZ57, 35UX70BA/CZ57P, 35TX79K/CZ56, 32UX8B/CY58


1
2
3
4
5
A
B
C
IF01
LA7577
FM DET
LIM AMP
MIX
M.S.C.
ED AMP B/W
VIDEO AMP
VIDEO DET
APC DET
APC TIME CONST SW
IF AMP
PRE AMP
RF AGC AMP
LOCK DET
IF AGC
VCO
AFT
HF01
HW3461
HF02
HF03
QF01
QF02
CF02 2200P CK-K
CF03 2200P CK-K
CF04 0.1 MYL-K
CF05 0.1 MYL-K
CF06 220P CCSL-J
CF07 0.1 MYL-K
CF08
CF09 150P CCSL-J
CF10 0.068 MYL-K
CF11 0.1 MYL-K
CF12 0.1 MYL-K
CF13 1000P CK-K
CF15 91P
CF16 2.2/50 CE-M
CF19 0.047 MYL-K
CF20 0.1 MYL-K
CF21 22P CCCH-J
CF22 0.47/50 CE-M
CF23 27P CCCH-J
CF26 0.1 MYL-K
CF29
CF31 0.1 MYL-K
CF50 470/16 CE-M
LF01 0.68 LAL-M
LF02
LF05
LF06
LF10
LF11 33 LA-K
LF12 18 LAL-K
RF01 100
RF02 3.9K
RF03 680
RF05 100 RD1/4J
RF06 560
RF07 3.9K
RF08 22
RF09 270
RF12 1.5K
RF13 4.7K
RF14 1.8K
RF15 30K-B
RF16 56K
RF22 390K RD1/8J
RF23 1K
RF24 2.2K
RF25 47
RF26 330
RF28 1M
RF30 1.8K
RF31 2.2K
RF32 3.3K
RF33 2.2K
RF35 100
RF37 6.8K
RF39 180K RD1/8J
RF45 100
RAA
R88
RA83 10K
RA84 3.9K
LA01 100 EL
CA09 100/16 CE-M
CA10 22/16 CE-M
CA11 1/50 CE-M
CA12 1/50 CE-M
CA13 4.7/50 CE-M
CA14 10/16 CE-M
CA15 0.1 MYL-K
CA16 0.047 MYL-K
CA17 0.47/50 CE-M
CA18 0.1 MYL-K
RAY1 220K RD1/8J
RAY2 680K
RD1/8J
RA13 1K
RA14 68K
RA80

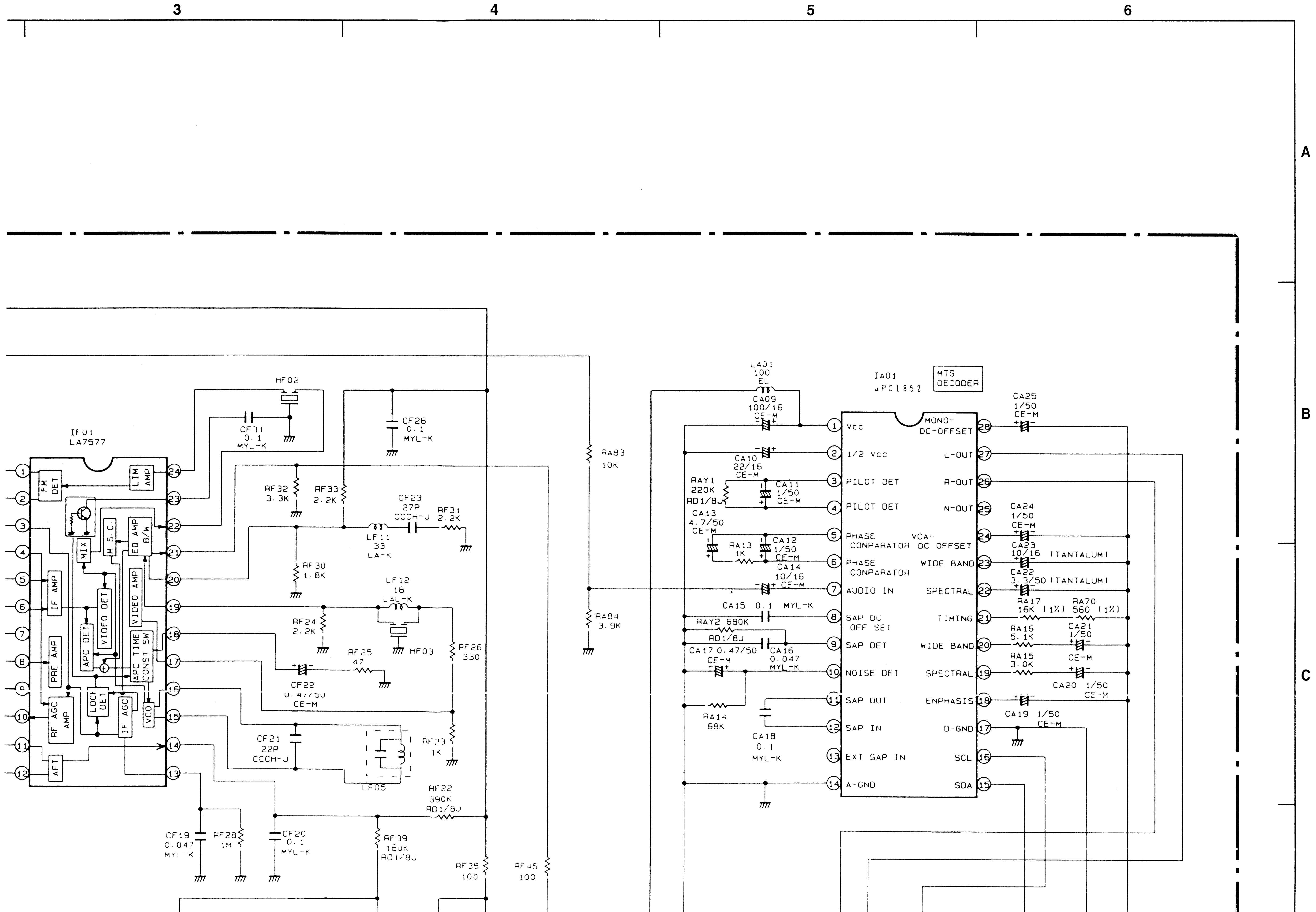


C
D
E
1
2
3
4
5
HF01
HW3461
CF06
220P
CCSL-J
CF03
2200P
CK-K
RF06
560
QF02
RF09
270
RF08
22
CF04
0.1
MYL-K
CF29
LF02
RF12
1.5K
CF05
0.1
MYL-K
CF12
0.1
MYL-K
CF02
2200P
CK-K
RF05
100
RD1/4J
RF07
3.9K
RF37
6.8K
CF16
2.2/50
CE-M
RF16
56K
CF13
1000P
CK-K
LF01
0.68
LAL-M
QF01
RF02
3.9K
CF50
470/16
CE-M
RF01
100
RF03
680
RF04
33
RD1/8J
CF01
22P
CCSL-J
CF15
91P
CCCH-J
LF06
RF46
1K
CF14
15P
CCCH-J
LF20
100
LA-K
IF AMP
PRE AMP
RF AGC AMP
AFT
APC DET
VIDEO DET
VIDEO AMP
APC TIME CONST SW
LOCK DET
IF AGC
VCO
RF30
1.8K
LF12
18
LAL-K
RF24
2.2K
HF03
RF26
330
RF25
47
CF22
0.47/50
CE-M
CF21
22P
CCCH-J
LF05
RF23
1K
RF22
390K
RD1/8J
CF19
0.047
MYL-K
RF28
1M
CF20
0.1
MYL-K
RF39
180K
RD1/8J
RF35
100
RF45
100
RF21
220K
RD1/8J
CF25
0.0022
MYL-K
QF03
LF14
47
LAL-K
RF36
470
CF35
22P
CCCH-J
29
RA84
3.9K
CA14
10/16
CE-M
CA15 0.1 MYL-K
RAY2 680K
RD1/8J
CA17 0.47/50
CE-M
CA16
0.047
MYL-K
RA14
68K
CA18
0.1
MYL-K
RA80
100
1
2
3
4
5
6
BM(+9V)
AGC
IF IN
AFC
GND
VIDEO OUT
PIFB

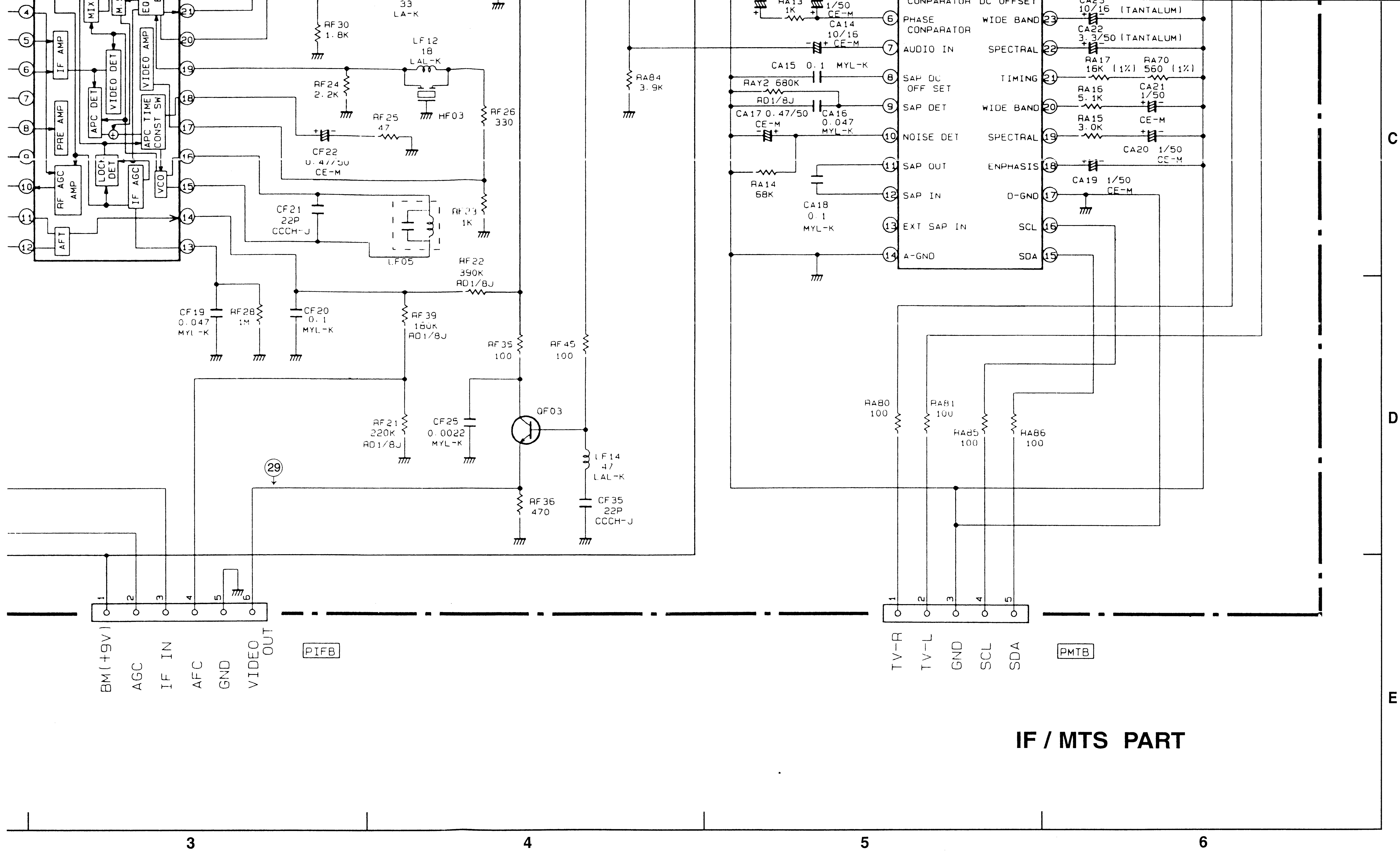
- Since this is a basic circuit diagram,
- All DC voltage to be measured with a

CIRCUIT SCHEMATIC DIAGRAM OF 35UX80B/CZ58, 35UX70B/CZ57, 35UX70BA/CZ57P, 35TX79K/CZ56, 32UX8B/CY58

PRODUCT SAFETY NOTE: Components marked with a ⚠ and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.



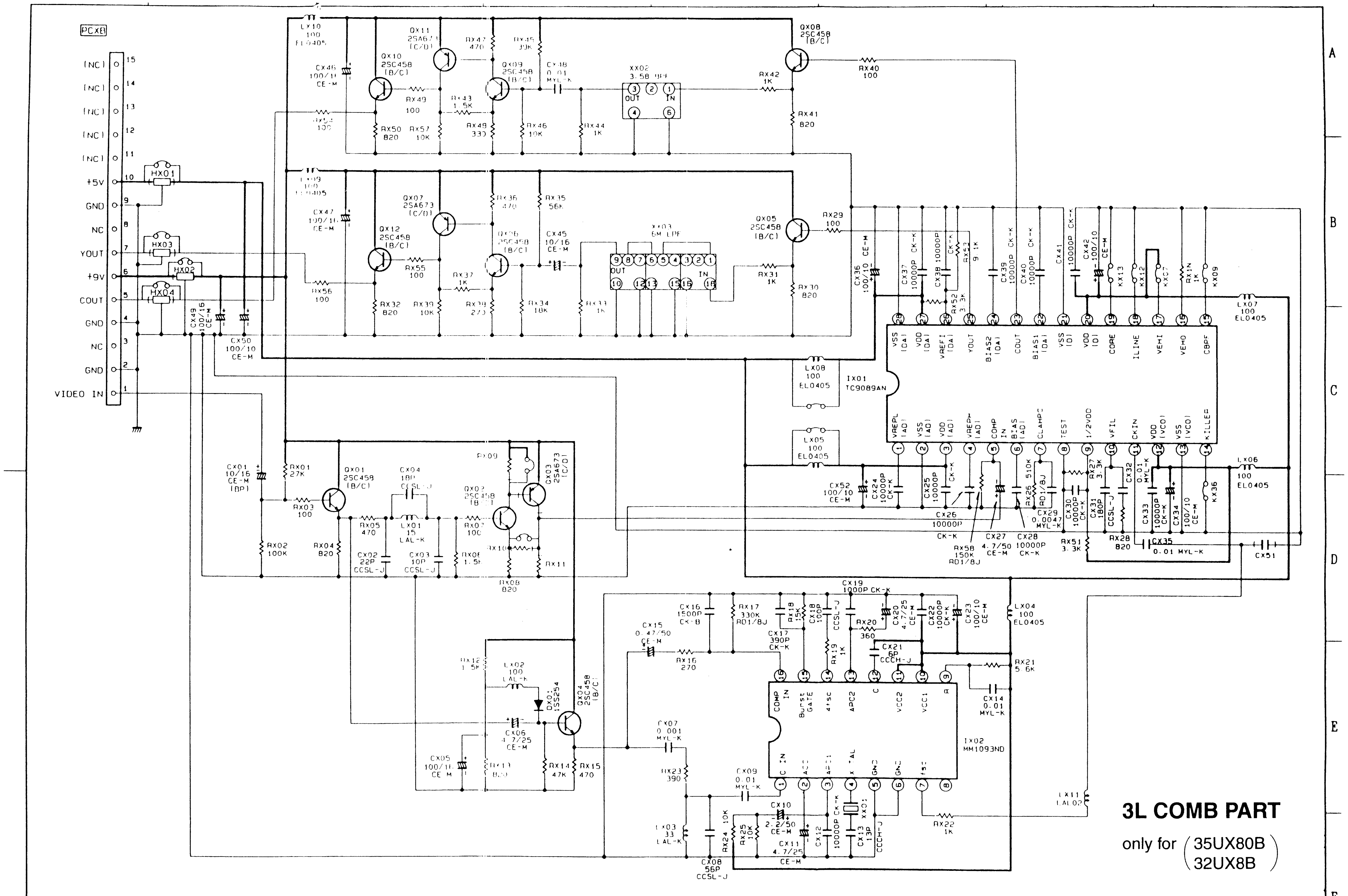
3
4
5
6
A
B
C
IF01
LA7577
FM DET
LIM AMP
MIX
M.S.C.
EQ AMP B/W
IF AMP
VIDEO DET
VIDEO AMP
APC DET
APC TIME CONST SW
PRE AMP
RF AGC AMP
LOCK DET
IF AGC
VCO
AFT
HF02
CF31
0.1
MYL-K
CF26
0.1
MYL-K
RF32
3.3K
RF33
2.2K
CF23
27P
CCCH-J
RF31
2.2K
LF11
33
LA-K
RF30
1.8K
LF12
18
LAL-K
RF24
2.2K
HF03
RF25
47
RF26
330
CF22
0.47/50
CE-M
CF21
22P
CCCH-J
RF23
1K
LF05
RF22
390K
RD1/8J
CF19
0.047
MYL-K
RF28
1M
CF20
0.1
MYL-K
RF39
180K
RD1/8J
RF35
100
RF45
100
RA83
10K
RA84
3.9K
LA01
100
EL
CA09
100/16
CE-M
IA01
μPC1852
MTS DECODER
CA10
22/16
CE-M
RAY1
220K
RD1/8J
CA11
1/50
CE-M
CA13
4.7/50
CE-M
RA13
1K
CA12
1/50
CE-M
CA14
10/16
CE-M
CA15 0.1 MYL-K
RAY2 680K
RD1/8J
CA17 0.47/50
CE-M
CA16
0.047
MYL-K
RA14
68K
CA18
0.1
MYL-K
Vcc
1/2 Vcc
PILOT DET
PILOT DET
PHASE CONPARATOR
PHASE CONPARATOR
AUDIO IN
SAP DC OFF SET
SAP DET
NOISE DET
SAP OUT
SAP IN
EXT SAP IN
A-GND
MONO-DC-OFFSET
L-OUT
R-OUT
N-OUT
VCA-DC OFFSET
WIDE BAND
SPECTRAL
TIMING
WIDE BAND
SPECTRAL
ENPHASIS
D-GND
SCL
SDA
CA25
1/50
CE-M
CA24
1/50
CE-M
CA23
10/16 (TANTALUM)
CA22
3.3/50 (TANTALUM)
RA17
16K (1%)
RA70
560 (1%)
RA16
5.1K
CA21
1/50
CE-M
RA15
3.0K
CA20 1/50
CE-M
CA19 1/50
CE-M


IF AMP
PRE AMP
RF AGC AMP
AFT
MIX
VIDEO DET
APC DET
VIDEO AMP
APC TIME CONST SW
LOCK DET
IF AGC
VCO
RF30 1.8K
33 LA-K
LF12 18 LAL-K
RF24 2.2K
HF03
RF26 330
RF25 47
CF22 0.47/50 CE-M
CF21 22P CCCH-J
LF05
RF23 1K
RF22 390K RD1/8J
CF19 0.047 MYL-K
RF28 1M
CF20 0.1 MYL-K
RF39 180K RD1/8J
RF35 100
RF45 100
RF21 220K RD1/8J
CF25 0.0022 MYL-K
QF03
LF14 47 LAL-K
RF36 470
CF35 22P CCCH-J
29
RA84 3.9K
RA13 1K
1/50 CE-M
CA14 10/16 CE-M
CA15 0.1 MYL-K
RAY2 680K
RD1/8J
CA17 0.47/50 CE-M
CA16 0.047 MYL-K
RA14 68K
CA18 0.1 MYL-K
COMPARATOR DC OFFSET
PHASE CONPARATOR
AUDIO IN
SAP DC OFF SET
SAP DET
NOISE DET
SAP OUT
SAP IN
EXT SAP IN
A-GND
WIDE BAND
SPECTRAL
TIMING
WIDE BAND
SPECTRAL
ENPHASIS
D-GND
SCL
SDA
CA23 10/16 (TANTALUM)
CA22 3.3/50 (TANTALUM)
RA17 16K (1%)
RA70 560 (1%)
RA16 5.1K
CA21 1/50 CE-M
RA15 3.0K
CA20 1/50 CE-M
CA19 1/50 CE-M
RA80 100
RA81 100
RA85 100
RA86 100
BM(+9V)
AGC
IF IN
AFC
GND
VIDEO OUT
PIFB
TV-R
TV-L
GND
SCL
SDA
PMTB
C
D
E
3
4
5
6

IF / MTS PART

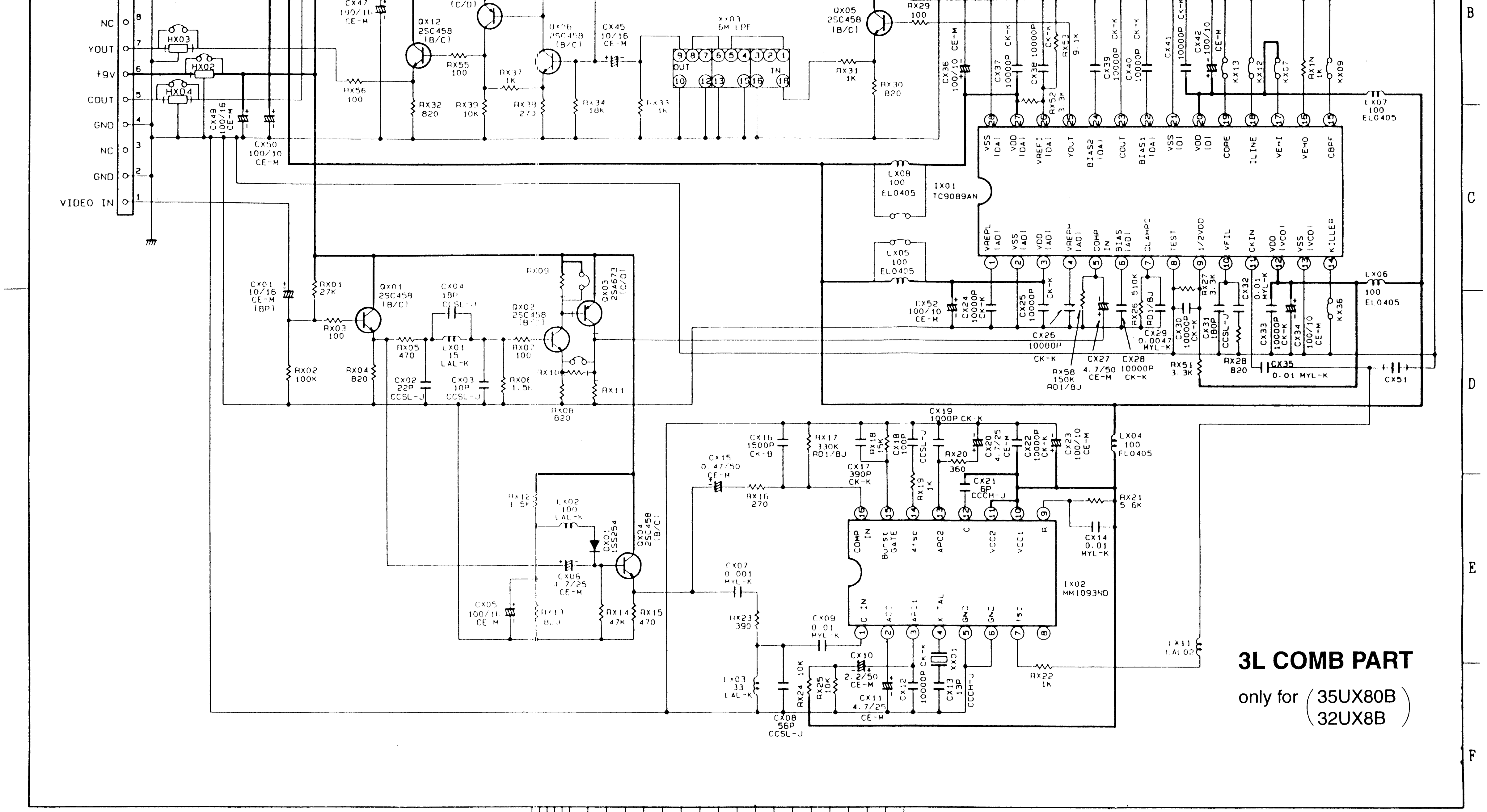
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.
- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.

CIRCUIT SCHEMATIC DIAGRAM OF 35UX80B/CZ58, 32UX8B/CY58


PCXB
(NC) 15
(NC) 14
(NC) 13
(NC) 12
(NC) 11
+5V 10
GND 9
NC 8
YOUT 7
+9V 6
COUT 5
GND 4
NC 3
GND 2
VIDEO IN 1
HX01
HX02
HX03
HX04
CX49 100/16 CE-M
CX50 100/10 CE-M
LX10 100 EL0405
CX46 100/10 CE-M
QX10 2SC458 (B/C)
QX11 2SA673 (C/D)
RX47 470
RX45 39K
QX09 2SC458 (B/C)
CX48 0.01 MYL-K
XX02 3.58 BPF
OUT
IN
QX08 2SC458 (B/C)
RX40 100
RX42 1K
RX41 820
RX49 100
RX43 1.5K
RX48 330
RX46 10K
RX44 1K
RX53 100
RX50 820
RX57 10K
LX09 100 EL0405
CX47 100/10 CE-M
QX07 2SA673 (C/D)
QX12 2SC458 (B/C)
RX36 470
RX35 56K
QX06 2SC458 (B/C)
CX45 10/16 CE-M
XX03 6M LPF
QX05 2SC458 (B/C)
RX29 100
RX55 100
RX37 1K
RX31 1K
RX30 820
RX56 100
RX32 820
RX39 10K
RX38 270
RX34 18K
RX33 1K
CX36 100/10 CE-M
CX37 10000P CK-K
CX38 10000P CK-K
RX52 3.3K
RX43 9.1K
CX39 10000P CK-K
CX40 10000P CK-K
CX41 10000P CK-K
CX42 100/10 CE-M
KX13
KX12
KX07
RX14 1K
KX09
LX07 100 EL0405
LX08 100 EL0405
IX01 TC9089AN
VSS (DA)
VDD (DA)
VREFI (DA)
YOUT
BIAS2 (DA)
COUT
BIAS1 (DA)
VSS (D)
VDD (D)
CORE
ILINE
VEHI
VEHO
CBPF
VREPL (AD)
VSS (AD)
VDD (AD)
VREF+ (AD)
COMP IN
BIAS (AD)
CLAMPC
TEST
1/2VDD
VFIL
CKIN
VDD (VCO)
VSS (VCO)
KILLER
LX05 100 EL0405
LX06 100 EL0405
CX52 100/10 CE-M
CX24 10000P CK-K
CX25 10000P CK-K
CX26 10000P CK-K
RX26 510K
RD1/8J
RX58 150K RD1/8J
CX27 4.7/50 CE-M
CX28 10000P CK-K
CX29 0.0047 MYL-K
RX27 3.3K
CX30 10000P CK-K
CX31 180P CCSL-J
CX32 0.01 MYL-K
CX33 10000P CK-K
CX34 100/10 CE-M
KX36
RX51 3.3K
RX28 820
CX35 0.01 MYL-K
CX51
CX01 10/16 CE-M (BP)
RX01 27K
QX01 2SC458 (B/C)
CX04 18P CCSL-J
RX09
QX03 2SA673 (C/D)
QX02 2SC458 (B/C)
RX03 100
RX05 470
LX01 15 LAL-K
RX07 100
RX10
RX11
RX02 100K
RX04 820
CX02 22P CCSL-J
CX03 10P CCSL-J
RX06 1.5K
RX08 820
RX12 1.5K
LX02 100 LAL-K
DX01 1SS254
QX04 2SC458 (B/C)
CX06 4.7/25 CE-M
CX05 100/10 CE-M
RX13 820
RX14 47K
RX15 470
CX15 0.47/50 CE-M
RX16 270
CX16 1500P CK-B
RX17 330K RD1/8J
CX17 390P CK-K
RX18 15K
CX18 100P CCSL-J
CX19 1000P CK-K
RX20 360
CX20 4.7/25 CE-M
CX21 6P CCCH-J
CX22 10000P CK-K
CX23 100/10 CE-M
RX19 1K
LX04 100 EL0405
RX21 5.6K
CX14 0.01 MYL-K
COMP IN
Burst GATE
4fsc
APC2
VCC2
VCC1
IX02 MM1093ND
C IN
ACC
APC1
X TAL
GND
FSC
CX07 0.001 MYL-K
RX23 390
CX09 0.01 MYL-K
CX10 2.2/50 CE-M
CX11 4.7/25 CE-M
CX12 10000P CK-K
CX13 13P CCCH-J
XX01
RX22 1K
LX11 LAL02
LX03 33 LAL-K
CX08 56P CCSL-J
RX24 10K
RX25 10K
A
B
C
D
E
F
1
2
3

3L COMB PART

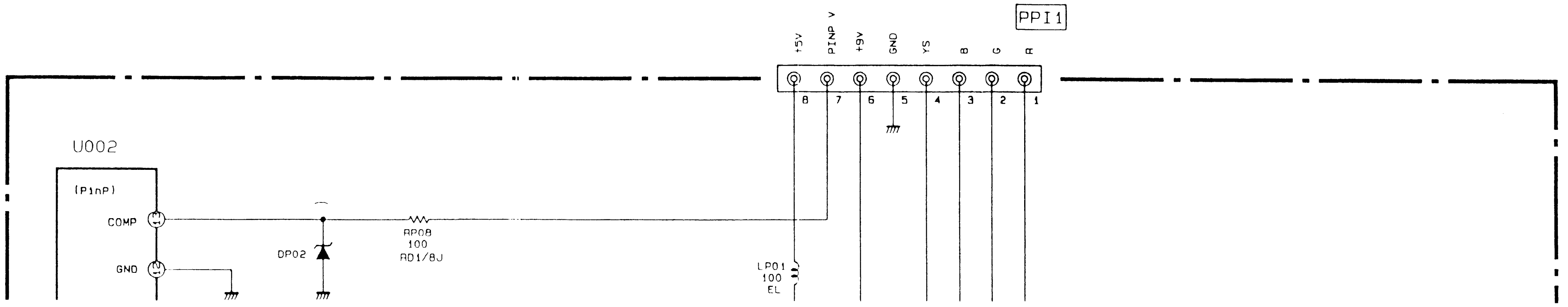
only for (35UX80B 32UX8B)


NC
YOUT
+9V
COUT
GND
NC
GND
VIDEO IN
HX03
HX02
HX04
CX49 100/16 CE-M
CX50 100/10 CE-M
CX47 100/16 CE-M
QX12 2SC458 (B/C)
QX16 2SC458 (B/C)
RX55 100
RX56 100
RX32 820
RX39 10K
RX37 1K
RX38 270
RX34 10K
RX33 1K
CX45 10/16 CE-M
XX03 6M LPF
OUT
IN
QX05 2SC458 (B/C)
RX29 100
RX31 1K
RX30 820
CX36 100/10 CE-M
CX37 10000P CK-K
CX38 10000P CK-K
RX52 3.3K
RX53 9.1K
CX39 10000P CK-K
CX40 10000P CK-K
CX41 10000P CK-K
CX42 100/10 CE-M
KX13
KX12
KXC7
RX1N 1K
KX09
LX07 100 EL0405
LX08 100 EL0405
LX05 100 EL0405
IX01 TC9089AN
VSS (DA)
VDD (DA)
VREFI (DA)
YOUT
BIAS2 (DA)
COUT
BIAS1 (DA)
VSS (D)
VDD (D)
CORE
ILINE
VEHI
VEHO
CBPF
VREPL (AD)
VSS (AD)
VDD (AD)
VREP- (AD)
COMP IN
BIAS (AD)
CLAMP
TEST
1/2VDD
VFIL
CKIN
VDD (VCO)
VSS (VCO)
KILLER
LX06 100 EL0405
CX52 100/10 CE-M
CX24 10000P CK-K
CX25 10000P CK-K
CX26 10000P CK-K
RX58 150K RD1/8J
CX27 4.7/50 CE-M
CX28 10000P CK-K
RX26 510K
CX29 0.0047 MYL-K
CX30 10000P CK-K
CX31 180P CCSL-J
RX27 3.3K
CX32 0.01 MYL-K
CX33 10000P CK-K
CX34 100/10 CE-M
KX36
RX51 3.3K
RX28 820
CX35 0.01 MYL-K
CX51
CX01 10/16 CE-M (BP)
RX01 27K
QX01 2SC458 (B/C)
RX03 100
RX02 100K
RX04 820
RX05 470
CX04 18P CCSL-J
LX01 15 LAL-K
CX02 22P CCSL-J
CX03 10P CCSL-J
RX09
QX02 2SC458 (B/C)
QX03 2SA673 (C/D)
RX07 100
RX10
RX06 1.5K
RX08 820
RX11
RX12 1.5K
LX02 100 LAL-K
DX01 1SS254
QX04 2SC458 (B/C)
CX06 4.7/25 CE-M
CX05 100/16 CE-M
RX13 820
RX14 47K
RX15 470
CX15 0.47/50 CE-M
RX16 270
CX16 1500P CK-B
RX17 330K RD1/8J
RX18 15K
CX18 100P CCSL-J
CX17 390P CK-K
RX19 1K
CX19 1000P CK-K
RX20 360
CX20 4.7/25 CE-M
CX21 6P CCCH-J
CX22 10000P CK-K
CX23 100/10 CE-M
LX04 100 EL0405
RX21 5.6K
CX14 0.01 MYL-K
COMP IN
BURST GATE
4fsc
APC2
C
VCC2
VCC1
R
IX02 MM1093ND
C IN
ACC
APC1
X'TAL
GND
GND
fsc
CX07 0.001 MYL-K
RX23 390
CX09 0.01 MYL-K
LX03 33 LAL-K
CX08 56P CCSL-J
RX24 10K
RX25 10K
CX10 2.2/50 CE-M
CX11 4.7/25 CE-M
CX12 10000P CK-K
CX13 13P CCCH-J
XX01
RX22 1K
LX11 LAL02

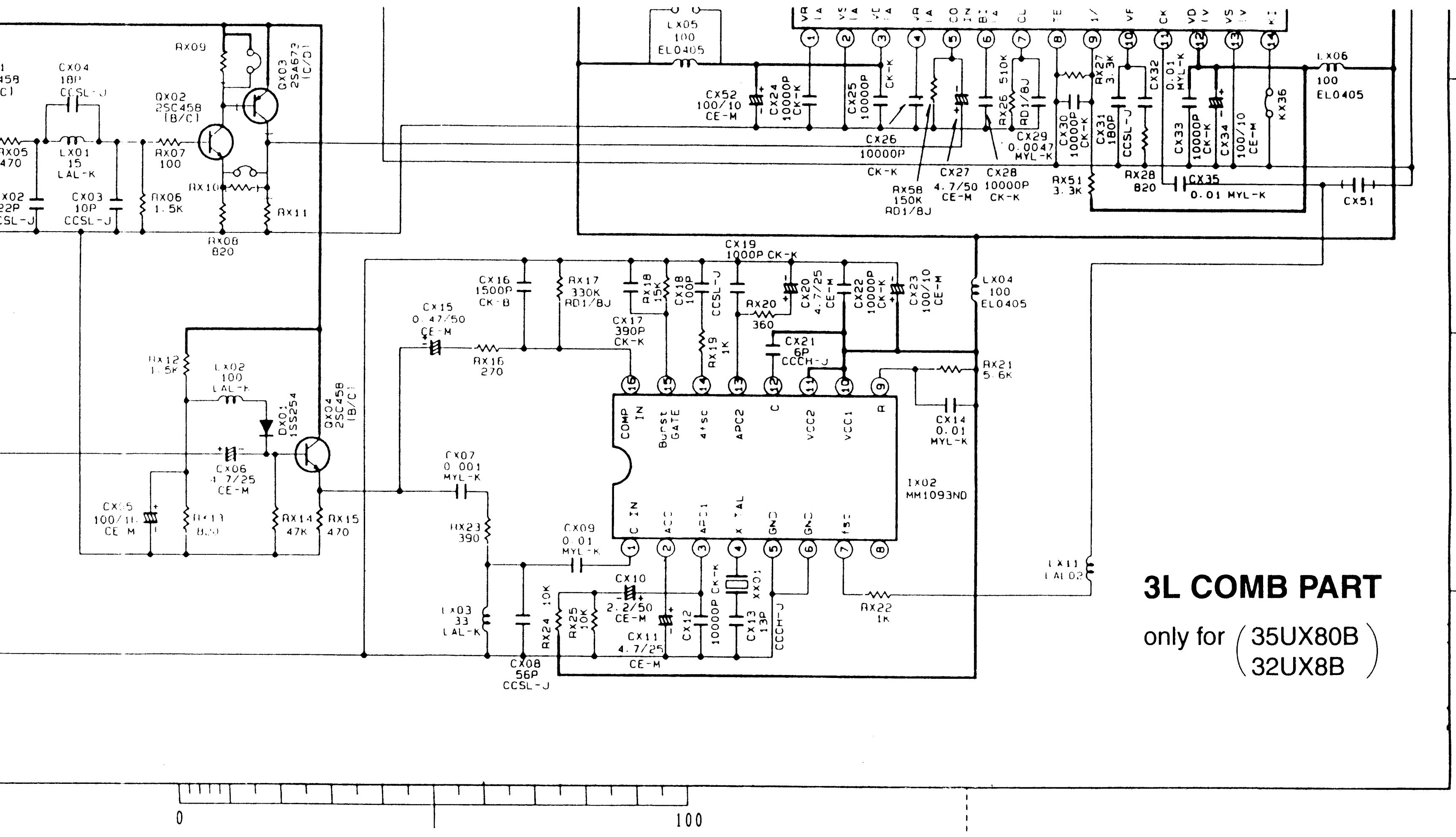
3L COMB PART

only for (35UX80B 32UX8B)

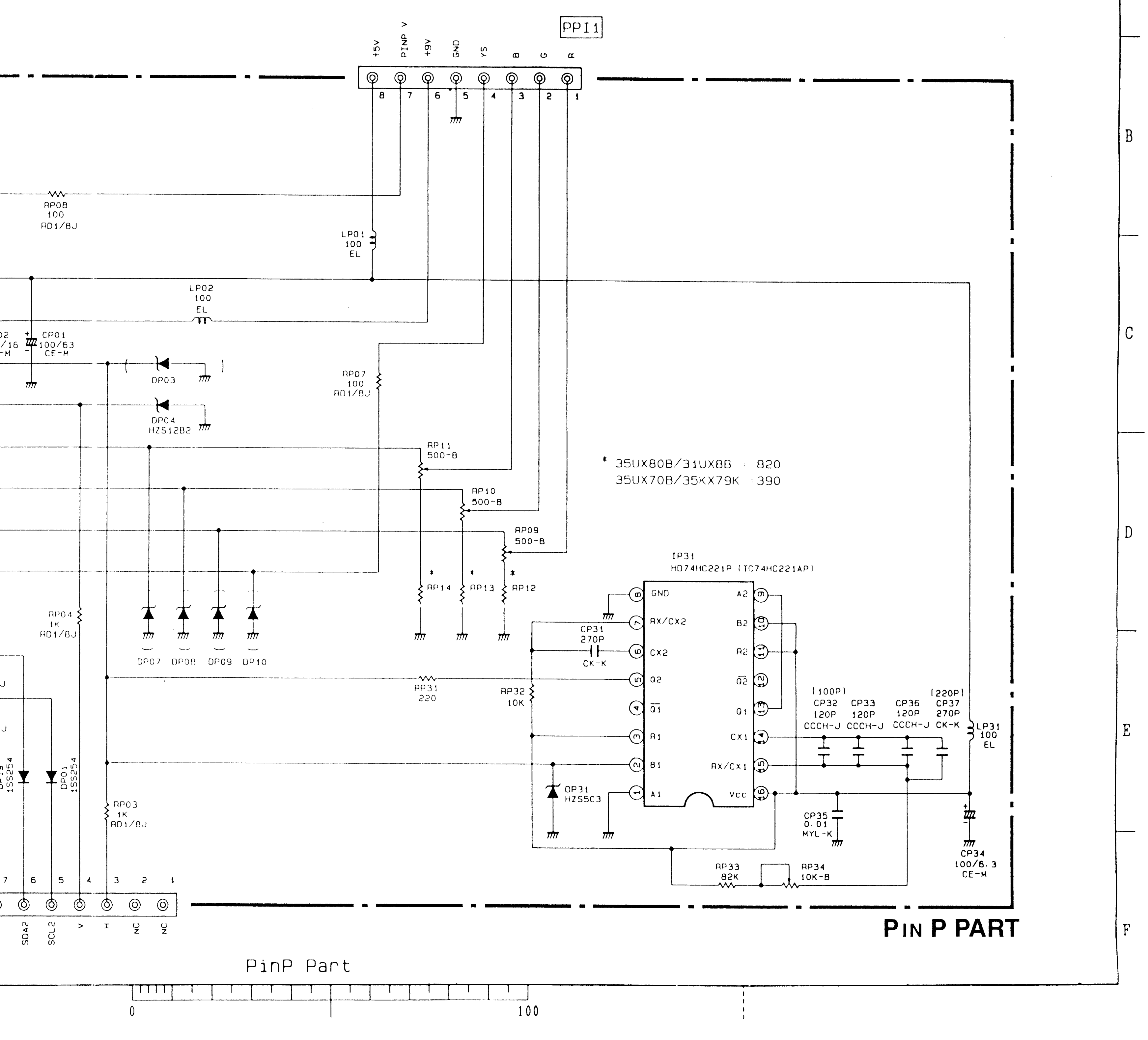
CIRCUIT SCHEMATIC DIAGRAM OF 35UX80B/CZ58, 35UX70B/CZ57, 35UX70BA/CZ57P, 35TX79K/CZ56, 32UX8B/CY58


PPI1
+5V
PINP V
+9V
GND
YS
B
G
R
8
7
6
5
4
3
2
1
U002
(PinP)
COMP
GND
DP02
RP08 100 RD1/8J
LP01 100 EL

PRODU
any of t
through

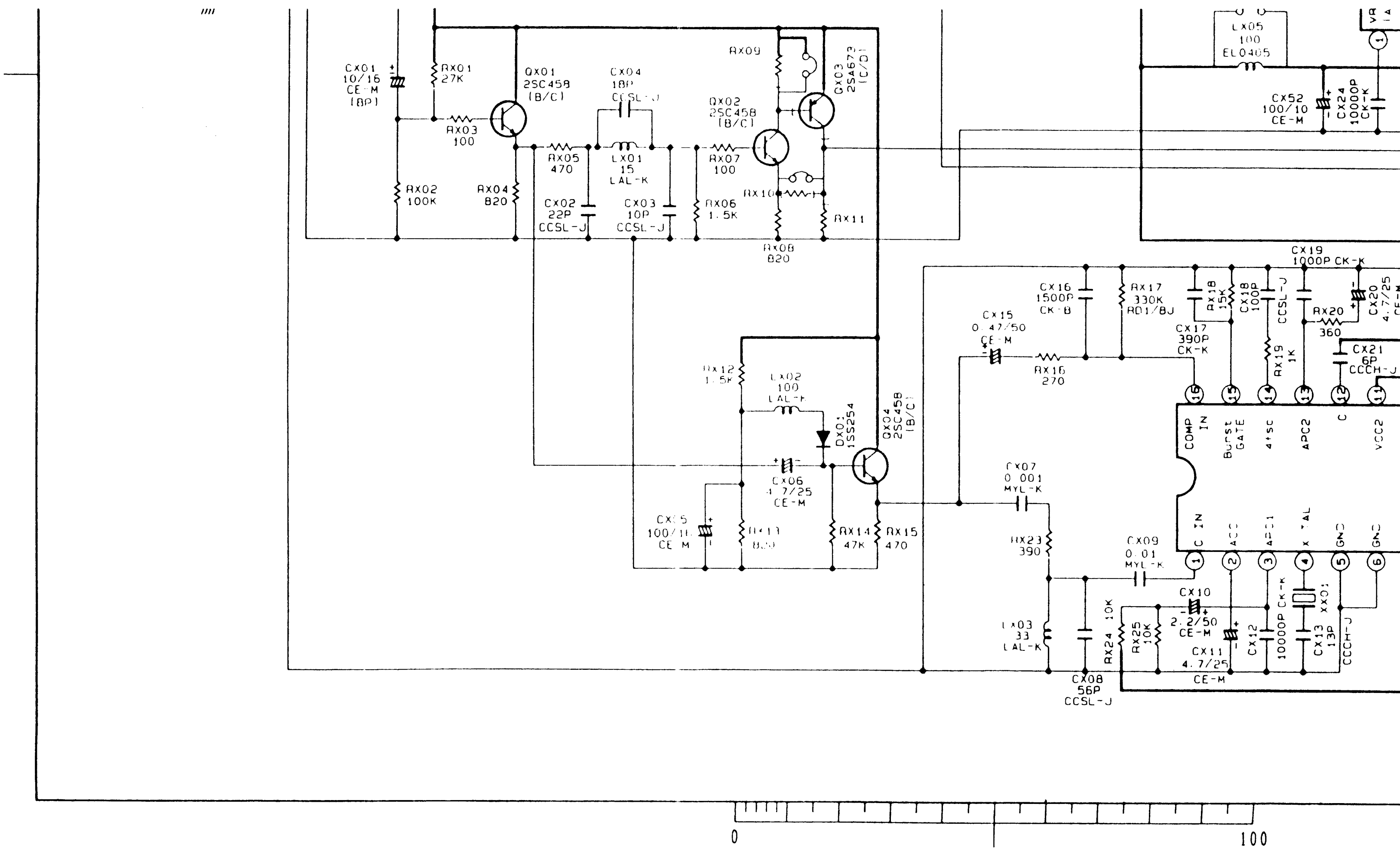

3L COMB PART
only for (35UX80B 32UX8B)
IX02 MM1093ND
COMP IN
BURST GATE
4fsc
APC2
VCC2
VCC1
C IN
AFC
X'TAL
GND
QX03 2SA673 (C/D)
QX02 2SC458 (B/C)
QX04 2SC458 (B/C)
DX01 1SS254
LX04 100 EL0405
LX05 100 EL0405
LX06 100 EL0405
0
100

EMATIC DIAGRAM OF 35UX80B/CZ58, 35UX70B/CZ57,
57P, 35TX79K/CZ56, 32UX8B/CY58

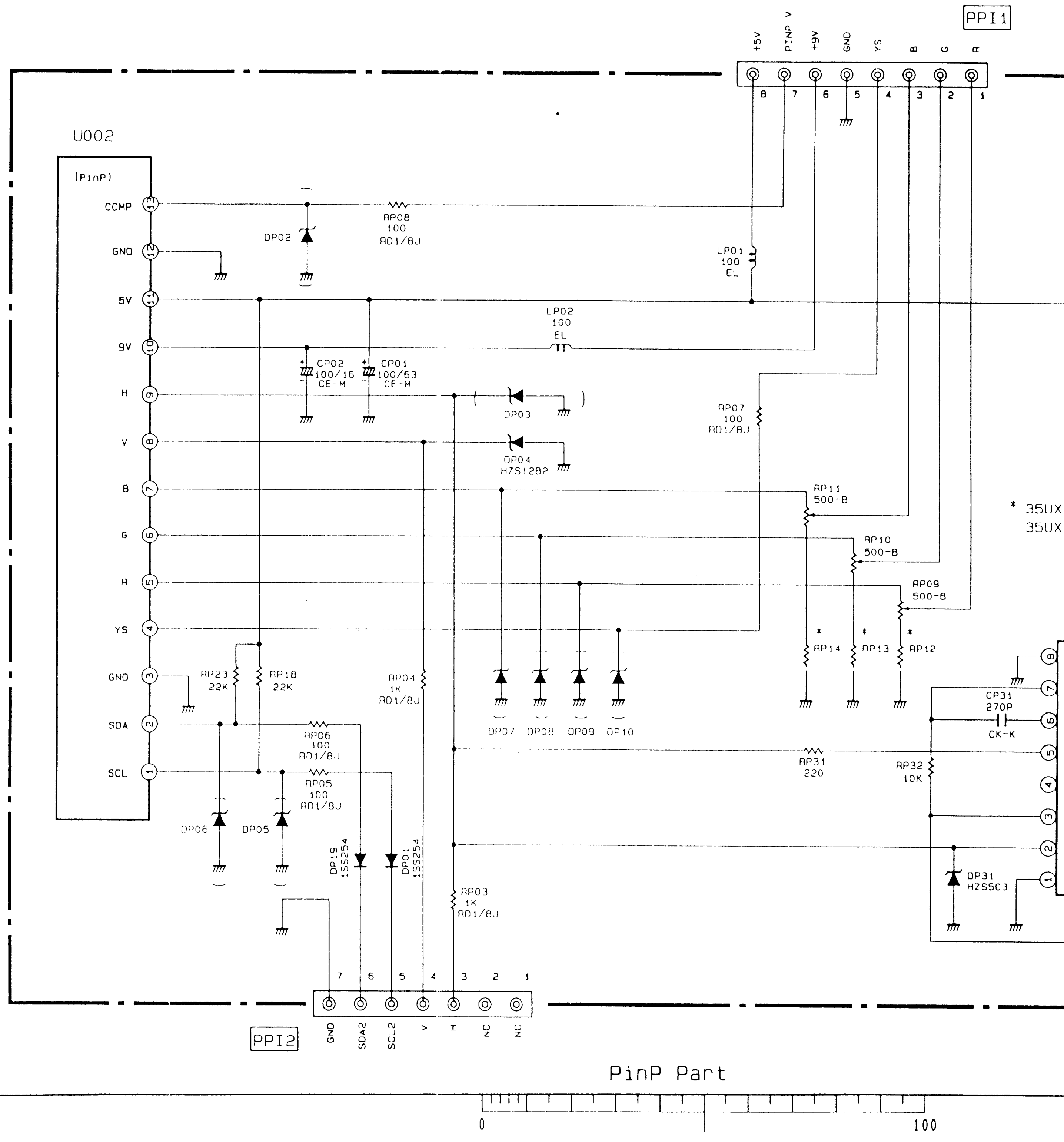

PPI1
+5V
PINP V
+9V
GND
YS
B
G
R
IP31
HD74HC221P (TC74HC221AP)
* 35UX80B/31UX8B : 820
35UX70B/35KX79K : 390
RP08 100 RD1/8J
LP01 100 EL
LP02 100 EL
CP01 100/63 CE-M
DP03
DP04 HZS12B2
RP07 100 RD1/8J
RP11 500-B
RP10 500-B
RP09 500-B
RP14
RP13
RP12
DP07 DP08 DP09 DP10
RP04 1K RD1/8J
RP31 220
RP32 10K
CP31 270P CK-K
DP31 HZS5C3
CP32 120P CCCH-J
CP33 120P CCCH-J
CP36 120P CCCH-J
CP37 270P CK-K
LP31 100 EL
CP35 0.01 MYL-K
CP34 100/6.3 CE-M
RP33 82K
RP34 10K-B
RP03 1K RD1/8J
SDA2
SCL2
V
H
NC
NC
PinP Part
0
100

PIN P PART

PRODUCT SAFETY NOTE: Components marked with a ⚠ and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.


QX01
2SC458
(B/C)
QX02
2SC458
(B/C)
QX03
2SA673
(C/D)
QX04
2SC458
(B/C)
DX01
1SS254
LX01
15
LAL-K
LX02
100
LAL-K
LX03
33
LAL-K
LX05
100
EL0405
CX01
10/16
CE-M
(BP)
CX02
22P
CCSL-J
CX03
10P
CCSL-J
CX04
18P
CCSL-J
CX05
100/10
CE-M
CX06
4.7/25
CE-M
CX07
0.001
MYL-K
CX08
56P
CCSL-J
CX09
0.01
MYL-K
CX10
2.2/50
CE-M
CX11
4.7/25
CE-M
CX12
10000P CK-K
CX13
13P
CCCH-J
CX15
0.47/50
CE-M
CX16
1500P
CK-B
CX17
390P
CK-K
CX18
100P
CCSL-J
CX19
1000P CK-K
CX21
6P
CCCH-J
CX52
100/10
CE-M
CX24
1000P
CK-K
RX01
27K
RX02
100K
RX03
100
RX04
820
RX05
470
RX06
1.5K
RX07
100
RX08
820
RX09
RX10
RX11
RX12
1.5K
RX13
820
RX14
47K
RX15
470
RX16
270
RX17
330K
RD1/8J
RX18
1.5K
RX19
1K
RX20
360
RX23
390
RX24 10K
RX25
10K
XX01
COMP IN
Burst GATE
4fsc
APC2
C
VCC2
C IN
ACC
APC1
X'TAL
GND
GND
0
100

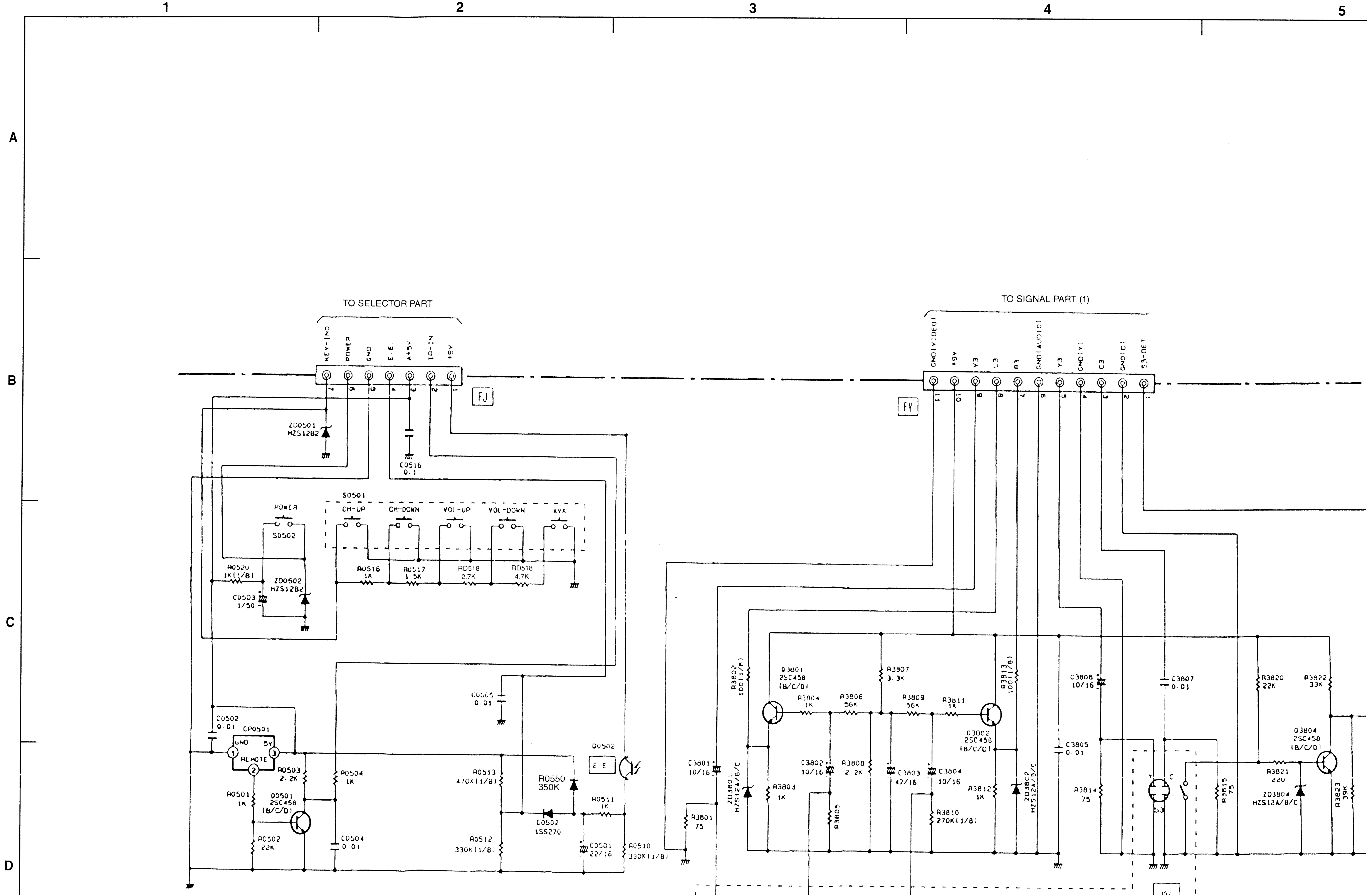
CIRCUIT SCHEMATIC DIAGRAM OF 35UX80B/CZ58, 35UX70B/C
35UX70BA/CZ57P, 35TX79K/CZ56, 32UX8B/CY58

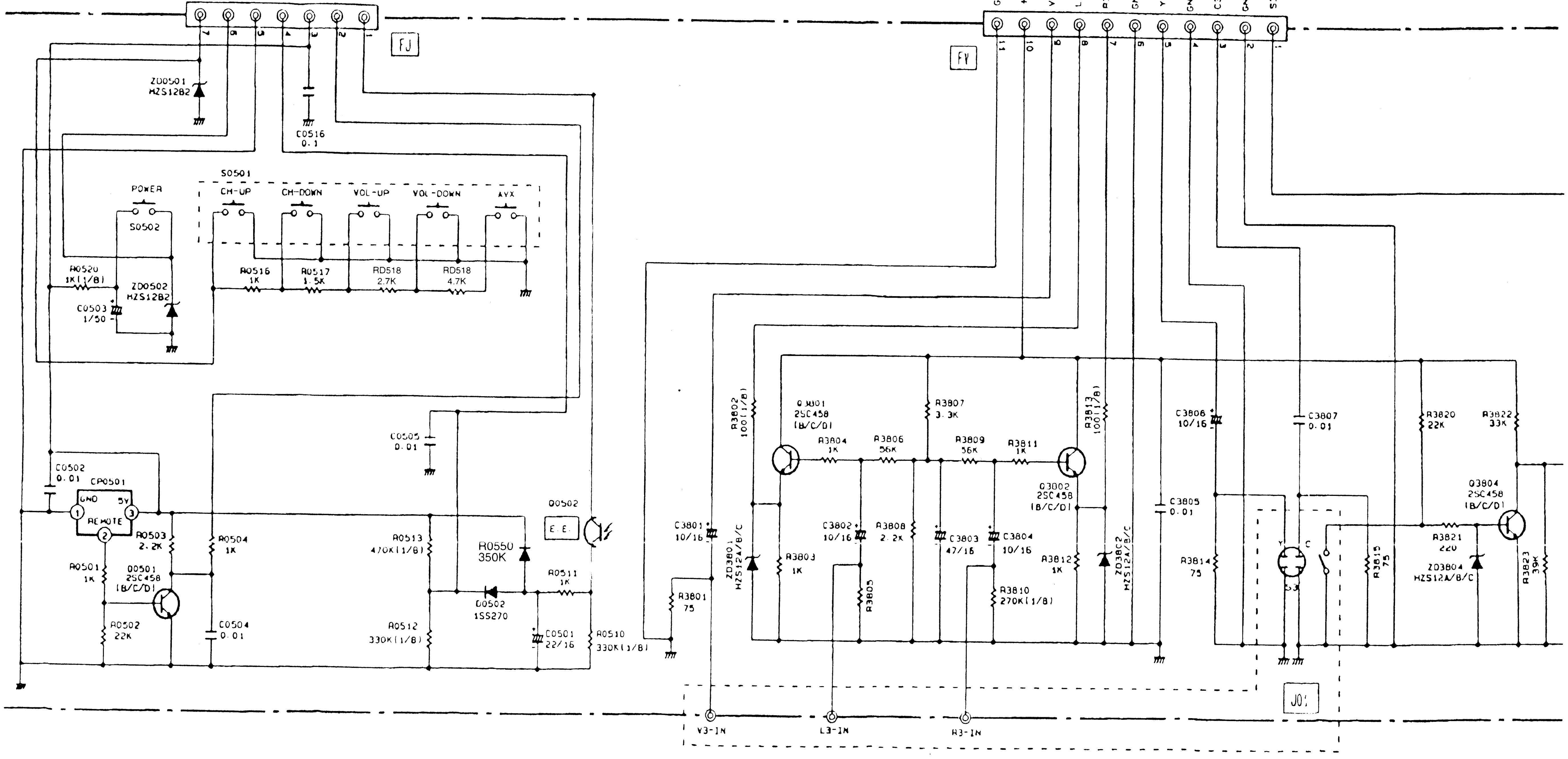

PPI1
+5V
PINP V
+9V
GND
YS
B
G
R
U002
(PinP)
COMP
GND
5V
9V
H
V
B
G
R
YS
GND
SDA
SCL
RP08
100
RD1/8J
DP02
LP01
100
EL
LP02
100
EL
CP02
100/16
CE-M
CP01
100/63
CE-M
DP03
DP04
HZS12B2
RP07
100
RD1/8J
RP11
500-B
RP10
500-B
RP09
500-B
RP14
RP13
RP12
* 35UX
35UX
DP07
DP08
DP09
DP10
RP23
22K
RP18
22K
RP04
1K
RD1/8J
RP06
100
RD1/8J
RP05
100
RD1/8J
DP06
DP05
DP19
1SS254
DP01
1SS254
RP03
1K
RD1/8J
RP31
220
RP32
10K
CP31
270P
CK-K
DP31
HZS5C3
PPI2
GND
SDA2
SCL2
V
H
NC
NC
PinP Part
0
100

• Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.
• All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.

PRODUCT SAFE
any of these com
through improper

CIRCUIT SCHEMATIC DIAGRAM OF 35TX79K/CZ56


1
2
3
4
5
A
B
C
D
TO SELECTOR PART
KEY-IN0
POWER
GND
E.E.
A+5V
IR-IN
+9V
FJ
ZD0501
HZS12B2
C0516
0.1
S0501
POWER
CH-UP
CH-DOWN
VOL-UP
VOL-DOWN
AVX
S0502
R0520
1K(1/8)
ZD0502
HZS12B2
C0503
1/50
R0516
1K
R0517
1.5K
RD518
2.7K
RD518
4.7K
C0502
0.01
CP0501
GND
5V
REMOTE
R0503
2.2K
R0501
1K
Q0501
2SC458
(B/C/D)
R0502
22K
R0504
1K
C0504
0.01
C0505
0.01
R0513
470K(1/8)
R0550
350K
D0502
1SS270
R0512
330K(1/8)
C0501
22/16
R0511
1K
R0510
330K(1/8)
Q0502
E.E.
TO SIGNAL PART (1)
GND(VIDEO)
+9V
V3
L3
R3
GND(AUDIO)
Y3
GND(Y)
C3
GND(C)
S3-DET
FY
R3802
100(1/8)
Q3801
2SC458
(B/C/D)
R3804
1K
R3806
56K
R3807
3.3K
R3809
56K
R3811
1K
R3813
100(1/8)
Q3802
2SC458
(B/C/D)
C3801
10/16
ZD3801
HZS12A/B/C
R3801
75
R3803
1K
C3802
10/16
R3805
R3808
2.2K
C3803
47/16
C3804
10/16
R3810
270K(1/8)
R3812
1K
ZD3802
HZS12A/B/C
C3805
0.01
C3806
10/16
C3807
0.01
R3814
75
R3815
75
C3
R3820
22K
R3822
33K
Q3804
2SC458
(B/C/D)
R3821
220
ZD3804
HZS12A/B/C
R3823
39K



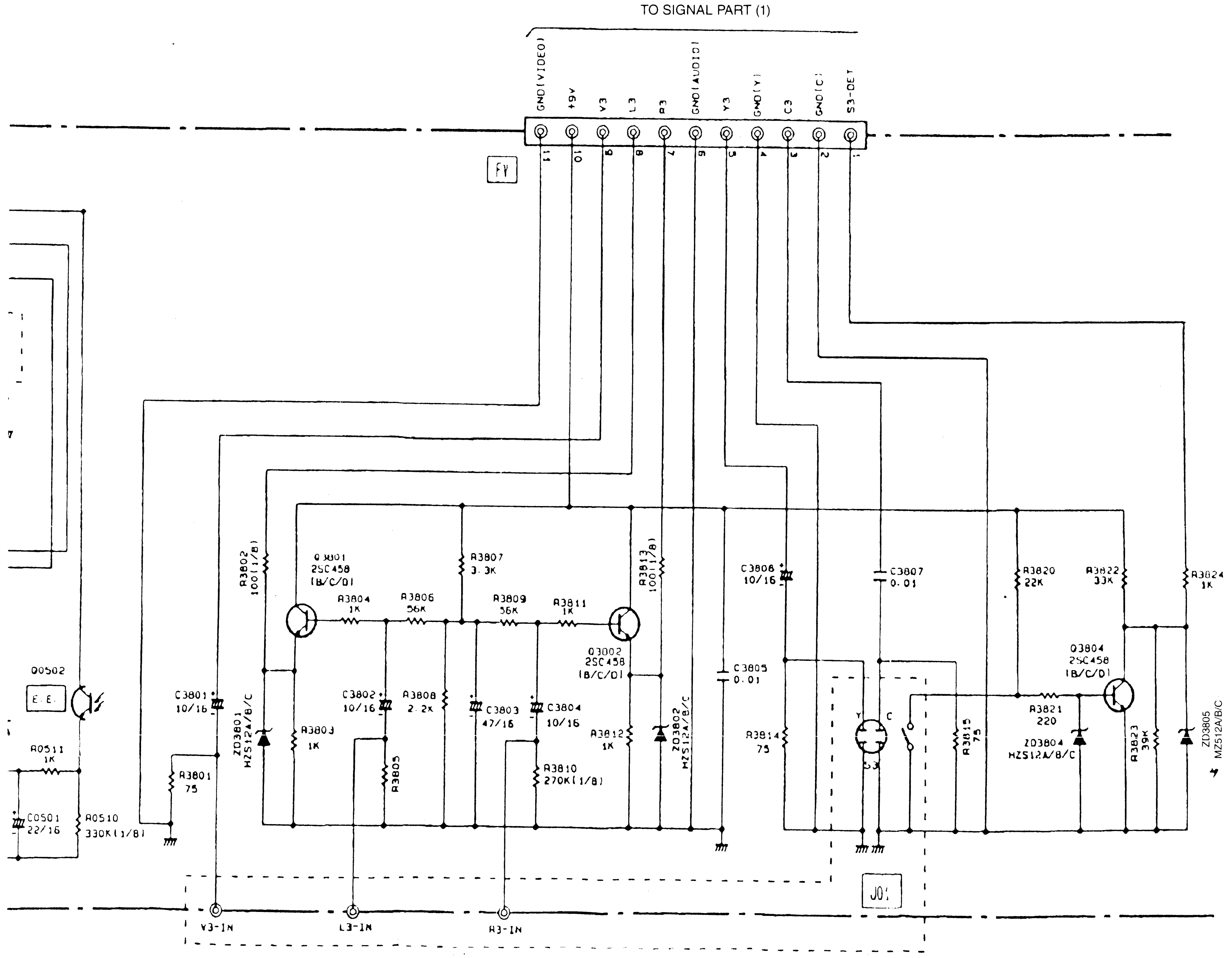
B
C
D
E
FJ
FY
ZD0501
HZS12B2
C0516
0.1
S0501
POWER
CH-UP
CH-DOWN
VOL-UP
VOL-DOWN
AVX
S0502
R0520
1K(1/8)
ZD0502
HZS12B2
C0503
1/50
R0516
1K
R0517
1.5K
RD518
2.7K
RD518
4.7K
C0502
0.01
CP0501
GND
5V
REMOTE
R0503
2.2K
R0504
1K
R0501
1K
Q0501
2SC458
(B/C/D)
R0502
22K
C0504
0.01
C0505
0.01
R0513
470K(1/8)
R0550
350K
D0502
1SS270
R0511
1K
C0501
22/16
R0512
330K(1/8)
R0510
330K(1/8)
Q0502
EE
R3802
100(1/8)
Q3801
2SC458
(B/C/D)
R3804
1K
R3806
56K
R3807
3.3K
R3809
56K
R3811
1K
R3813
100(1/8)
Q3802
2SC458
(B/C/D)
C3801
10/16
ZD3801
HZS12A/B/C
R3801
75
R3803
1K
C3802
10/16
R3808
2.2K
R3805
C3803
47/16
C3804
10/16
R3810
270K(1/8)
R3812
1K
ZD3802
HZS12A/B/C
C3805
0.01
C3806
10/16
R3814
75
C3807
0.01
Y
C
R3815
75
R3820
22K
R3822
33K
Q3804
2SC458
(B/C/D)
R3821
220
ZD3804
HZS12A/B/C
R3823
39K
J01
V3-IN
L3-IN
R3-IN

KEY S

KEY SW/CONTROL PART

1
2
3
4
5

- Since this is a basic circuit diagram, th
- All DC voltage to be measured with a t


TO SIGNAL PART (1)
GND(VIDEO)
+9V
V3
L3
R3
GND(AUDIO)
Y3
GND(Y)
C3
GND(C)
S3-DET
11
10
9
8
7
6
5
4
3
2
1
FY
Q0502
E.E.
R0511
1K
C0501
22/16
R0510
330K(1/8)
R3801
75
C3801
10/16
ZD3801
HZS12A/B/C
R3802
100(1/8)
Q3801
2SC458
(B/C/D)
R3803
1K
R3804
1K
R3806
56K
C3802
10/16
R3805
R3807
3.3K
R3808
2.2K
C3803
47/16
R3809
56K
C3804
10/16
R3810
270K(1/8)
R3811
1K
Q3002
2SC458
(B/C/D)
R3812
1K
R3813
100(1/8)
ZD3802
HZS12A/B/C
C3805
0.01
C3808
10/16
R3814
75
Y
C
S3
C3807
0.01
R3815
75
R3820
22K
R3821
220
ZD3804
HZS12A/B/C
Q3804
2SC458
(B/C/D)
R3822
33K
R3823
39K
R3824
1K
ZD3805
MZ512A/B/C
J01
V3-IN
L3-IN
R3-IN

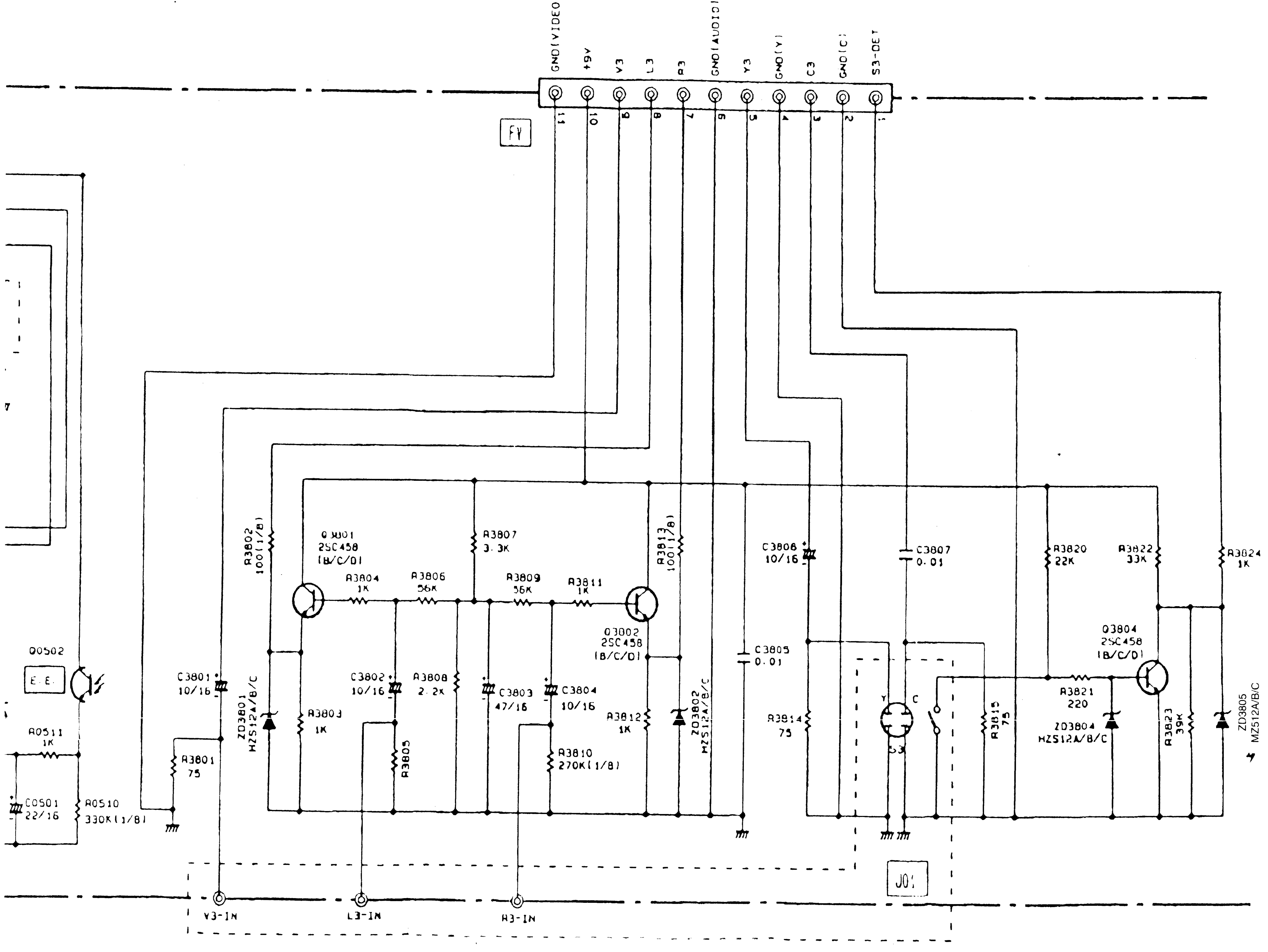
A

B

C

D

KEY SW/CONTROL PART (35TX79K ONLY)


GND(VIDEO)
+9V
V3
L3
R3
GND(AUDIO)
Y3
GND(Y)
C3
GND(C)
S3-DET
11
10
9
8
7
6
5
4
3
2
1
FY
Q0502
E.E.
R0511
1K
C0501
22/16
R0510
330K(1/8)
C3801
10/16
R3801
75
R3802
100(1/8)
ZD3801
HZS12A/B/C
Q3801
2SC458
(B/C/D)
R3803
1K
R3804
1K
R3806
56K
C3802
10/16
R3805
R3808
2.2K
R3807
3.3K
C3803
47/16
R3809
56K
R3811
1K
C3804
10/16
R3810
270K(1/8)
Q3802
2SC458
(B/C/D)
R3812
1K
R3813
100(1/8)
ZD3802
HZS12A/B/C
C3805
0.01
C3806
10/16
R3814
75
C3807
0.01
Y
C
S3
R3815
75
R3820
22K
R3821
220
ZD3804
HZS12A/B/C
Q3804
2SC458
(B/C/D)
R3822
33K
R3823
39K
R3824
1K
ZD3805
MZ512A/B/C
J01
V3-IN
L3-IN
R3-IN
B
C
D
E
3
4
5
6

KEY SW/CONTROL PART (35TX79K ONLY)

KEY SW/CONTROL PART

- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.
- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.